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THAILAND - POPULATION A

FREQUENCIES

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COLLEGE OF EDUCATION
UNIVERSITY OF ILLINOIS AT URBANA - CHAMPAIGN
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THAA1

Class level Achievement

THAILAND -- POPULATION A
BEGINNING OF YEAR -- ITEM-LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PXS001	99	0	0.56	0.21
PXS002	99	0	0.32	0.17
PXS003	99	0	0.27	0.21
PXS004	99	0	0.10	0.10
PXS005	99	0	0.39	0.15
PXS006	99	0	0.23	0.18
PXS007	99	0	0.28	0.18
PXS008	99	0	0.51	0.17
PXS009	99	0	0.26	0.11
PXS010	99	0	0.26	0.20
PXS011	99	0	0.08	0.08
PXS012	99	0	0.09	0.14
PXS013	99	0	0.20	0.10
PXS014	99	0	0.30	0.17
PXS015	99	0	0.14	0.11
PXS016	99	0	0.20	0.14
PXS017	99	0	0.41	0.16
PXS018	99	0	0.40	0.17
PXS019	99	0	0.23	0.14
PXS021	99	0	0.49	0.17
PXS022	99	0	0.48	0.20
PXS023	99	0	0.42	0.16
PXS024	99	0	0.51	0.19
PXS025	99	0	0.15	0.14
PXS026	99	0	0.52	0.21
PXS027	99	0	0.20	0.15
PXS028	99	0	0.44	0.18
PXS029	99	0	0.16	0.13
PXS030	99	0	0.48	0.17
PXS031	99	0	0.27	0.15
PXS032	99	0	0.53	0.21
PXS033	99	0	0.75	0.19
PXS034	99	0	0.73	0.16
PXS035	99	0	0.14	0.14
PXS036	99	0	0.82	0.16
PXS037	99	0	0.17	0.12
PXS038	99	0	0.22	0.13
PXS039	99	0	0.18	0.17
PXS040	99	0	0.17	0.14
PXS041	99	0	0.77	0.18
PXS042	99	0	0.35	0.24
PXS043	99	0	0.22	0.12
PXS044	99	0	0.40	0.19
PXS045	99	0	0.15	0.07

THAILAND -- POPULATION A
BEGINNING OF YEAR -- ITEM-LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PXS046	99	0	0.35	0.15
PXS047	99	0	0.43	0.20
PXS048	99	0	0.51	0.18
PXS049	99	0	0.55	0.17
PXS052	99	0	0.49	0.19
PXS053	99	0	0.30	0.21
PXS054	99	0	0.60	0.22
PXS055	99	0	0.11	0.11
PXS057	99	0	0.40	0.24
PXS058	99	0	0.29	0.19
PXS059	99	0	0.33	0.17
PXS062	99	0	0.15	0.18
PXS063	99	0	0.27	0.15
PXS065	99	0	0.63	0.16
PXS066	99	0	0.48	0.21
PXS067	99	0	0.70	0.18
PXS068	99	0	0.86	0.12
PXS069	99	0	0.81	0.13
PXS070	99	0	0.00	0.01
PXS071	99	0	0.20	0.16
PXS072	99	0	0.21	0.17
PXS073	99	0	0.76	0.20
PXS074	99	0	0.22	0.14
PXS075	99	0	0.40	0.17
PXS076	99	0	0.17	0.08
PXS077	99	0	0.48	0.18
PXS078	99	0	0.26	0.18
PXS079	99	0	0.50	0.16
PXS080	99	0	0.61	0.24
PXS081	99	0	0.05	0.07
PXS082	99	0	0.26	0.17
PXS084	99	0	0.04	0.03
PXS085	99	0	0.39	0.24
PXS086	99	0	0.26	0.09
PXS087	99	0	0.10	0.11
PXS088	99	0	0.22	0.19
PXS089	99	0	0.42	0.19
PXS090	99	0	0.53	0.20
PXS091	99	0	0.73	0.17
PXS093	99	0	0.14	0.12
PXS096	99	0	0.18	0.13
PXS097	99	0	0.35	0.15
PXS098	99	0	0.45	0.20
PXS099	99	0	0.16	0.13

THAILAND -- POPULATION A
BEGINNING OF YEAR -- ITEM-LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PXS100	99	0	0.27	0.13
PXS101	99	0	0.78	0.16
PXS102	99	0	0.49	0.18
PXS103	99	0	0.47	0.18
PXS104	99	0	0.50	0.23
PXS105	99	0	0.14	0.13
PXS106	99	0	0.42	0.20
PXS107	99	0	0.35	0.23
PXS108	99	0	0.13	0.16
PXS109	99	0	0.67	0.19
PXS110	99	0	0.34	0.20
PXS111	99	0	0.38	0.26
PXS112	99	0	0.28	0.22
PXS113	99	0	0.17	0.17
PXS115	99	0	0.07	0.11
PXS116	99	0	0.22	0.14
PXS117	99	0	0.38	0.20
PXS118	99	0	0.33	0.15
PXS120	99	0	0.19	0.13
PXS121	99	0	0.63	0.18
PXS122	99	0	0.65	0.16
PXS123	99	0	0.34	0.17
PXS125	99	0	0.27	0.16
PXS126	99	0	0.13	0.12
PXS127	99	0	0.23	0.15
PXS128	99	0	0.39	0.18
PXS129	99	0	0.23	0.11
PXS130	99	0	0.32	0.18
PXS131	99	0	0.16	0.12
PXS132	99	0	0.55	0.17
PXS133	99	0	0.51	0.21
PXS134	99	0	0.49	0.21
PXS135	99	0	0.19	0.17
PXS136	99	0	0.15	0.12
PXS137	99	0	0.49	0.20
PXS138	99	0	0.71	0.21
PXS139	99	0	0.23	0.17
PXS140	99	0	0.24	0.14
PXS141	99	0	0.47	0.20
PXS142	99	0	0.18	0.13
PXS143	99	0	0.63	0.20
PXS144	99	0	0.33	0.18
PXS145	99	0	0.23	0.16
PXS146	99	0	0.47	0.22

THAILAND -- POPULATION A
BEGINNING OF YEAR -- ITEM-LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PXS148	99	0	0.22	0.17
PXS149	99	0	0.60	0.19
PXS151	99	0	0.15	0.07
PXS152	99	0	0.56	0.23
PXS155	99	0	0.64	0.20
PXS156	99	0	0.31	0.10
PXS158	99	0	0.52	0.20
PXS159	99	0	0.37	0.17
PXS160	99	0	0.46	0.20
PXS161	99	0	0.35	0.18
PXS162	99	0	0.36	0.23
PXS163	99	0	0.26	0.17
PXS164	99	0	0.59	0.22
PXS165	99	0	0.28	0.16
PXS166	99	0	0.05	0.07
PXS167	99	0	0.65	0.14
PXS168	99	0	0.04	0.04
PXS169	99	0	0.29	0.16
PXS170	99	0	0.27	0.15
PXS171	99	0	0.21	0.12
PXS172	99	0	0.18	0.09
PXS173	99	0	0.11	0.09
PXS174	99	0	0.33	0.17
PXS175	99	0	0.17	0.10
PXS176	99	0	0.14	0.12
PXS177	99	0	0.51	0.24
PXS178	99	0	0.16	0.12
PXS179	99	0	0.12	0.10
PXS180	99	0	0.17	0.12
PXS181	99	0	0.45	0.15
PXS182	99	0	0.32	0.20
PXS183	99	0	0.32	0.26
PXS184	99	0	0.30	0.16
PXS185	99	0	0.25	0.18
PXS186	99	0	0.56	0.20
PXS187	99	0	0.33	0.22
PXS188	99	0	0.40	0.21
PXS189	99	0	0.38	0.23
PXS190	99	0	0.46	0.17
PXS191	99	0	0.05	0.07
PXS192	99	0	0.53	0.24
PXS193	99	0	0.50	0.16
PXS194	99	0	0.21	0.14
PXS195	99	0	0.15	0.16

THAILAND -- POPULATION A
BEGINNING OF YEAR -- ITEM-LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PXS196	99	0	0.54	0.14
PXS197	99	0	0.45	0.16
PXS198	99	0	0.23	0.16
PXS199	99	0	0.66	0.18

THAILAND -- POPULATION A
END OF YEAR -- ITEM LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS001	99	0	0.63	0.21
PYS002	99	0	0.35	0.18
PYS003	99	0	0.47	0.26
PYS004	99	0	0.11	0.11
PYS005	99	0	0.49	0.18
PYS006	99	0	0.30	0.20
PYS007	99	0	0.37	0.22
PYS008	99	0	0.60	0.17
PYS009	99	0	0.29	0.13
PYS010	99	0	0.36	0.21
PYS011	99	0	0.12	0.14
PYS012	99	0	0.63	0.15
PYS013	99	0	0.22	0.12
PYS014	99	0	0.36	0.18
PYS015	99	0	0.18	0.15
PYS016	99	0	0.26	0.15
PYS017	99	0	0.58	0.20
PYS018	99	0	0.40	0.22
PYS019	99	0	0.30	0.15
PYS021	99	0	0.53	0.19
PYS022	99	0	0.56	0.20
PYS023	99	0	0.42	0.15
PYS024	99	0	0.60	0.22
PYS025	99	0	0.23	0.18
PYS026	99	0	0.56	0.24
PYS027	99	0	0.21	0.15
PYS028	99	0	0.42	0.16
PYS029	99	0	0.18	0.13
PYS030	99	0	0.47	0.18
PYS031	99	0	0.38	0.18
PYS032	99	0	0.58	0.21
PYS033	99	0	0.77	0.18
PYS034	99	0	0.78	0.15
PYS035	99	0	0.22	0.17
PYS036	99	0	0.87	0.13
PYS037	99	0	0.18	0.13
PYS038	99	0	0.31	0.16
PYS039	99	0	0.06	0.11
PYS040	99	0	0.30	0.21
PYS041	99	0	0.79	0.18
PYS042	99	0	0.39	0.23
PYS043	99	0	0.33	0.17
PYS044	99	0	0.39	0.20
PYS045	99	0	0.22	0.10

THAILAND -- POPULATION A
END OF YEAR -- ITEM LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS046	99	0	0.41	0.18
PYS047	99	0	0.54	0.22
PYS048	99	0	0.50	0.20
PYS049	99	0	0.60	0.21
PYS052	99	0	0.54	0.21
PYS053	99	0	0.40	0.23
PYS054	99	0	0.68	0.16
PYS055	99	0	0.15	0.13
PYS057	99	0	0.52	0.24
PYS058	99	0	0.38	0.22
PYS059	99	0	0.38	0.18
PYS062	99	0	0.27	0.22
PYS063	99	0	0.29	0.16
PYS065	99	0	0.65	0.18
PYS066	99	0	0.56	0.22
PYS067	99	0	0.71	0.18
PYS068	99	0	0.88	0.11
PYS069	99	0	0.86	0.10
PYS070	99	0	0.26	0.15
PYS071	99	0	0.31	0.20
PYS072	99	0	0.39	0.22
PYS073	99	0	0.80	0.15
PYS074	99	0	0.30	0.19
PYS075	99	0	0.50	0.20
PYS076	99	0	0.18	0.08
PYS077	99	0	0.58	0.18
PYS078	99	0	0.36	0.24
PYS079	99	0	0.63	0.18
PYS080	99	0	0.59	0.22
PYS081	99	0	0.08	0.12
PYS082	99	0	0.40	0.19
PYS084	99	0	0.05	0.03
PYS085	99	0	0.49	0.23
PYS086	99	0	0.36	0.15
PYS087	99	0	0.12	0.11
PYS088	99	0	0.41	0.24
PYS089	99	0	0.51	0.21
PYS090	99	0	0.56	0.20
PYS091	99	0	0.79	0.14
PYS093	99	0	0.18	0.18
PYS096	99	0	0.21	0.16
PYS097	99	0	0.42	0.21
PYS098	99	0	0.52	0.23
PYS099	99	0	0.19	0.14

THAILAND -- POPULATION A
END OF YEAR -- ITEM LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS100	99	0	0.30	0.13
PYS101	99	0	0.79	0.18
PYS102	99	0	0.50	0.18
PYS103	99	0	0.59	0.21
PYS104	99	0	0.67	0.20
PYS105	99	0	0.20	0.18
PYS106	99	0	0.47	0.22
PYS107	99	0	0.54	0.25
PYS108	99	0	0.24	0.22
PYS109	99	0	0.72	0.18
PYS110	99	0	0.41	0.24
PYS111	99	0	0.44	0.23
PYS112	99	0	0.40	0.22
PYS113	99	0	0.32	0.18
PYS115	99	0	0.33	0.21
PYS116	99	0	0.31	0.19
PYS117	99	0	0.49	0.21
PYS118	99	0	0.44	0.17
PYS120	99	0	0.22	0.14
PYS121	99	0	0.65	0.17
PYS122	99	0	0.72	0.15
PYS123	99	0	0.33	0.17
PYS125	99	0	0.47	0.24
PYS126	99	0	0.14	0.15
PYS127	99	0	0.35	0.19
PYS128	99	0	0.42	0.18
PYS129	99	0	0.26	0.16
PYS130	99	0	0.40	0.20
PYS131	99	0	0.23	0.19
PYS132	99	0	0.50	0.18
PYS133	99	0	0.58	0.22
PYS134	99	0	0.55	0.21
PYS135	99	0	0.36	0.22
PYS136	99	0	0.23	0.17
PYS137	99	0	0.41	0.20
PYS138	99	0	0.74	0.18
PYS139	99	0	0.34	0.22
PYS140	99	0	0.35	0.18
PYS141	99	0	0.54	0.22
PYS142	99	0	0.26	0.18
PYS143	99	0	0.67	0.20
PYS144	99	0	0.38	0.17
PYS145	99	0	0.28	0.18
PYS146	99	0	0.50	0.20

THAILAND -- POPULATION A
END OF YEAR -- ITEM LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS148	99	0	0.37	0.23
PYS149	99	0	0.67	0.16
PYS151	99	0	0.16	0.08
PYS152	99	0	0.67	0.21
PYS155	99	0	0.65	0.20
PYS156	99	0	0.42	0.14
PYS158	99	0	0.61	0.21
PYS159	99	0	0.42	0.19
PYS160	99	0	0.49	0.21
PYS161	99	0	0.34	0.20
PYS162	99	0	0.40	0.21
PYS163	99	0	0.24	0.16
PYS164	99	0	0.67	0.20
PYS165	99	0	0.41	0.20
PYS166	99	0	0.16	0.16
PYS167	99	0	0.71	0.13
PYS168	99	0	0.05	0.04
PYS169	99	0	0.31	0.14
PYS170	99	0	0.24	0.15
PYS171	99	0	0.22	0.12
PYS172	99	0	0.28	0.16
PYS173	99	0	0.14	0.11
PYS174	99	0	0.37	0.19
PYS175	99	0	0.21	0.13
PYS176	99	0	0.17	0.12
PYS177	99	0	0.67	0.23
PYS178	99	0	0.20	0.16
PYS179	99	0	0.20	0.14
PYS180	99	0	0.23	0.14
PYS181	99	0	0.51	0.19
PYS182	99	0	0.38	0.22
PYS183	99	0	0.52	0.27
PYS184	99	0	0.32	0.19
PYS185	99	0	0.38	0.23
PYS186	99	0	0.60	0.20
PYS187	99	0	0.55	0.25
PYS188	99	0	0.46	0.19
PYS189	99	0	0.50	0.23
PYS190	99	0	0.50	0.20
PYS191	99	0	0.08	0.11
PYS192	99	0	0.59	0.23
PYS193	99	0	0.45	0.19
PYS194	99	0	0.25	0.14
PYS195	99	0	0.23	0.19

THAILAND -- POPULATION A
END OF YEAR -- ITEM LEVEL MEANS

VARIABLE	N	N MISSING	MEAN	STANDARD DEVIATION
PYS196	99	0	0.63	0.14
PYS197	99	0	0.44	0.19
PYS198	99	0	0.27	0.17
PYS199	99	0	0.69	0.16

Appropriateness and Opportunity to learn

THAILAND -- POPULATION A
APPROPRIATENESS AND OPPORTUNITY-TO-LEARN

APP001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	11	12.2	15	16.7
41% - 60%	31	34.4	46	51.1
61% - 94%	25	27.8	71	78.9
VIRTUALLY ALL	19	21.1	90	100.0

TAUGHT THIS YEAR

T001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	13	14.6	13	14.6
REVIEWED THEN EX	76	85.4	89	100.0

WHY NOT OTL

W001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
TAUGHT PRIOR YEA	11	84.6	11	84.6
BE TAUGHT LATER	1	7.7	12	92.3
ALL OTHER REASON	1	7.7	13	100.0

APP002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	17	19.1	17	19.1
6% - 40%	29	32.6	46	51.7
41% - 60%	24	27.0	70	78.7
61% - 94%	14	15.7	84	94.4
VIRTUALLY ALL	5	5.6	89	100.0

TAUGHT THIS YEAR

T002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	65	73.9	65	73.9
REVIEWED THEN EX	23	26.1	88	100.0

WHY NOT OTL

W002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	34	.	.	.
TAUGHT PRIOR YEA	7	10.8	7	10.8
BE TAUGHT LATER	1	1.5	8	12.3
NOT IN CURRICULU	35	53.8	43	66.2
ALL OTHER REASON	22	33.8	65	100.0

APP003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	9	10.0	11	12.2
41% - 60%	23	25.6	34	37.8
61% - 94%	33	36.7	67	74.4
VIRTUALLY ALL	23	25.6	90	100.0

TAUGHT THIS YEAR

T003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	14	15.7	14	15.7
REVIEWED THEN EX	75	84.3	89	100.0

THAILAND -- POPULATION A
APPROPRIATENESS AND OPPORTUNITY-TO-LEARN

WHY NOT OTL

W003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
TAUGHT PRIOR YEA	13	100.0	13	100.0

APP004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	10	11.2	11	12.4
41% - 60%	24	27.0	35	39.3
61% - 94%	36	40.4	71	79.8
VIRTUALLY ALL	18	20.2	89	100.0

TAUGHT THIS YEAR

T004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	11	12.5	11	12.5
REVIEWED THEN EX	77	87.5	88	100.0

WHY NOT OTL

W004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	10	90.9	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	9	10.0	10	11.1
41% - 60%	24	26.7	34	37.8
61% - 94%	30	33.3	64	71.1
VIRTUALLY ALL	26	28.9	90	100.0

TAUGHT THIS YEAR

T005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	19	21.3	19	21.3
REVIEWED THEN EX	70	78.7	89	100.0

WHY NOT OTL

W005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	17	94.4	17	94.4
ALL OTHER REASON	1	5.6	18	100.0

APP006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	22	24.4	27	30.0
41% - 60%	44	48.9	71	78.9
61% - 94%	13	14.4	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

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TAUGHT THIS YEAR

T006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	19	21.3	19	21.3
REVIEWED THEN EX	70	78.7	89	100.0

WHY NOT OTL

W006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	9	50.0	9	50.0
BE TAUGHT LATER	4	22.2	13	72.2
NOT IN CURRICULU	1	5.6	14	77.8
ALL OTHER REASON	4	22.2	18	100.0

APP007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	14	15.6	14	15.6
6% - 40%	24	26.7	38	42.2
41% - 60%	34	37.8	72	80.0
61% - 94%	12	13.3	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	29	32.6	29	32.6
REVIEWED THEN EX	60	67.4	89	100.0

WHY NOT OTL

W007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
TAUGHT PRIOR YEA	19	65.5	19	65.5
BE TAUGHT LATER	3	10.3	22	75.9
NOT IN CURRICULU	2	6.9	24	82.8
ALL OTHER REASON	5	17.2	29	100.0

APP008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	11	12.2	12	13.3
41% - 60%	14	15.6	26	28.9
61% - 94%	30	33.3	56	62.2
VIRTUALLY ALL	34	37.8	90	100.0

TAUGHT THIS YEAR

T008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	4	4.5	4	4.5
REVIEWED THEN EX	85	95.5	89	100.0

WHY NOT OTL

W008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
TAUGHT PRIOR YEA	2	66.7	2	66.7
ALL OTHER REASON	1	33.3	3	100.0

APP009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	11	12.4	11	12.4
6% - 40%	26	29.2	37	41.6
41% - 60%	33	37.1	70	78.7
61% - 94%	10	11.2	80	89.9
VIRTUALLY ALL	9	10.1	89	100.0

TAUGHT THIS YEAR

T009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
TAUGHT AS NEW CO	14	16.3	14	16.3
REVIEWED THEN EX	72	83.7	86	100.0

WHY NOT OTL

W009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
TAUGHT PRIOR YEA	5	35.7	5	35.7
BE TAUGHT LATER	3	21.4	8	57.1
NOT IN CURRICULU	2	14.3	10	71.4
ALL OTHER REASON	4	28.6	14	100.0

APP010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	12	13.3	17	18.9
41% - 60%	31	34.4	48	53.3
61% - 94%	26	28.9	74	82.2
VIRTUALLY ALL	16	17.8	90	100.0

TAUGHT THIS YEAR

T010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	14	15.7	14	15.7
REVIEWED THEN EX	75	84.3	89	100.0

WHY NOT OTL

W010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
TAUGHT PRIOR YEA	9	64.3	9	64.3
BE TAUGHT LATER	3	21.4	12	85.7
NOT IN CURRICULU	2	14.3	14	100.0

APP011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	47	52.2	47	52.2
6% - 40%	23	25.6	70	77.8
41% - 60%	7	7.8	77	85.6
61% - 94%	7	7.8	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	57	64.0	57	64.0
REVIEWED THEN EX	32	36.0	89	100.0

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WHY NOT OTL

W011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	42	.	.	.
TAUGHT PRIOR YEA	2	3.5	2	3.5
BE TAUGHT LATER	30	52.6	32	56.1
NOT IN CURRICULU	21	36.8	53	93.0
ALL OTHER REASON	4	7.0	57	100.0

APP012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
41% - 60%	16	17.8	19	21.1
61% - 94%	29	32.2	48	53.3
VIRTUALLY ALL	42	46.7	90	100.0

TAUGHT THIS YEAR

T012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	9	10.1	9	10.1
REVIEWED THEN EX	80	89.9	89	100.0

WHY NOT OTL

W012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
TAUGHT PRIOR YEA	9	100.0	9	100.0

APP013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	9	10.0	9	10.0
6% - 40%	21	23.3	30	33.3
41% - 60%	32	35.6	62	68.9
61% - 94%	23	25.6	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	26	29.2	26	29.2
REVIEWED THEN EX	63	70.8	89	100.0

WHY NOT OTL

W013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
TAUGHT PRIOR YEA	7	29.2	7	29.2
BE TAUGHT LATER	2	8.3	9	37.5
NOT IN CURRICULU	5	20.8	14	58.3
ALL OTHER REASON	10	41.7	24	100.0

APP014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	16	18.0	21	23.6
41% - 60%	32	36.0	53	59.6
61% - 94%	20	22.5	73	82.0
VIRTUALLY ALL	16	18.0	89	100.0

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TAUGHT THIS YEAR

T014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
TAUGHT AS NEW CO	16	18.4	16	18.4
REVIEWED THEN EX	71	81.6	87	100.0

WHY NOT OTL

W014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
TAUGHT PRIOR YEA	11	68.8	11	68.8
BE TAUGHT LATER	3	18.8	14	87.5
NOT IN CURRICULU	1	6.3	15	93.8
ALL OTHER REASON	1	6.3	16	100.0

APP015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	21	23.3	21	23.3
6% - 40%	23	25.6	44	48.9
41% - 60%	28	31.1	72	80.0
61% - 94%	13	14.4	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	29	32.6	29	32.6
REVIEWED THEN EX	60	67.4	89	100.0

WHY NOT OTL

W015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
TAUGHT PRIOR YEA	3	10.7	3	10.7
BE TAUGHT LATER	6	21.4	9	32.1
NOT IN CURRICULU	17	60.7	26	92.9
ALL OTHER REASON	2	7.1	28	100.0

APP016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	16	17.8	16	17.8
6% - 40%	39	43.3	55	61.1
41% - 60%	28	31.1	83	92.2
61% - 94%	6	6.7	89	98.9
VIRTUALLY ALL	1	1.1	90	100.0

TAUGHT THIS YEAR

T016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	21	23.6	21	23.6
REVIEWED THEN EX	68	76.4	89	100.0

WHY NOT OTL

W016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
TAUGHT PRIOR YEA	3	15.8	3	15.8
BE TAUGHT LATER	1	5.3	4	21.1
NOT IN CURRICULU	7	36.8	11	57.9
ALL OTHER REASON	8	42.1	19	100.0

APP017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	15	16.7	17	18.9
41% - 60%	29	32.2	46	51.1
61% - 94%	30	33.3	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	4	4.5	4	4.5
REVIEWED THEN EX	85	95.5	89	100.0

WHY NOT OTL

W017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
TAUGHT PRIOR YEA	2	50.0	2	50.0
BE TAUGHT LATER	1	25.0	3	75.0
NOT IN CURRICULU	1	25.0	4	100.0

APP018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	9	10.0	9	10.0
6% - 40%	19	21.1	28	31.1
41% - 60%	29	32.2	57	63.3
61% - 94%	23	25.6	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

TAUGHT THIS YEAR

T018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	77	86.5	89	100.0

WHY NOT OTL

W018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	4	36.4	4	36.4
BE TAUGHT LATER	1	9.1	5	45.5
NOT IN CURRICULU	5	45.5	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	27	30.0	27	30.0
6% - 40%	28	31.1	55	61.1
41% - 60%	27	30.0	82	91.1
61% - 94%	4	4.4	86	95.6
VIRTUALLY ALL	4	4.4	90	100.0

TAUGHT THIS YEAR

T019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	38	42.7	38	42.7
REVIEWED THEN EX	51	57.3	89	100.0

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WHY NOT OTL

W019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	60	.	.	.
TAUGHT PRIOR YEA	12	30.8	12	30.8
BE TAUGHT LATER	3	7.7	15	38.5
NOT IN CURRICULU	20	51.3	35	89.7
ALL OTHER REASON	4	10.3	39	100.0

APP021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	14	15.6	18	20.0
41% - 60%	35	38.9	53	58.9
61% - 94%	24	26.7	77	85.6
VIRTUALLY ALL	13	14.4	90	100.0

TAUGHT THIS YEAR

T021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	22	24.7	22	24.7
REVIEWED THEN EX	67	75.3	89	100.0

WHY NOT OTL

W021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
TAUGHT PRIOR YEA	13	61.9	13	61.9
BE TAUGHT LATER	5	23.8	18	85.7
NOT IN CURRICULU	1	4.8	19	90.5
ALL OTHER REASON	2	9.5	21	100.0

APP022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	11	12.2	11	12.2
6% - 40%	15	16.7	26	28.9
41% - 60%	30	33.3	56	62.2
61% - 94%	11	12.2	67	74.4
VIRTUALLY ALL	23	25.6	90	100.0

TAUGHT THIS YEAR

T022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	23	25.8	23	25.8
REVIEWED THEN EX	66	74.2	89	100.0

WHY NOT OTL

W022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
TAUGHT PRIOR YEA	8	36.4	8	36.4
BE TAUGHT LATER	11	50.0	19	86.4
NOT IN CURRICULU	2	9.1	21	95.5
ALL OTHER REASON	1	4.5	22	100.0

APP023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	48	53.3	48	53.3
6% - 40%	19	21.1	67	74.4
41% - 60%	10	11.1	77	85.6
61% - 94%	10	11.1	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

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TAUGHT THIS YEAR

T023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	73	82.0	73	82.0
REVIEWED THEN EX	16	18.0	89	100.0

WHY NOT OTL

W023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	26	.	.	.
TAUGHT PRIOR YEA	7	9.6	7	9.6
BE TAUGHT LATER	15	20.5	22	30.1
NOT IN CURRICULU	40	54.8	62	84.9
ALL OTHER REASON	11	15.1	73	100.0

APP024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	12	13.3	16	17.8
41% - 60%	24	26.7	40	44.4
61% - 94%	28	31.1	68	75.6
VIRTUALLY ALL	22	24.4	90	100.0

TAUGHT THIS YEAR

T024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	23	25.8	23	25.8
REVIEWED THEN EX	66	74.2	89	100.0

WHY NOT OTL

W024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
TAUGHT PRIOR YEA	11	47.8	11	47.8
BE TAUGHT LATER	10	43.5	21	91.3
NOT IN CURRICULU	1	4.3	22	95.7
ALL OTHER REASON	1	4.3	23	100.0

APP025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	9	10.0	9	10.0
6% - 40%	20	22.2	29	32.2
41% - 60%	30	33.3	59	65.6
61% - 94%	17	18.9	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	24	27.0	24	27.0
REVIEWED THEN EX	65	73.0	89	100.0

WHY NOT OTL

W025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
TAUGHT PRIOR YEA	6	26.1	6	26.1
BE TAUGHT LATER	16	69.6	22	95.7
ALL OTHER REASON	1	4.3	23	100.0

APP026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	29	32.2	29	32.2
6% - 40%	24	26.7	53	58.9
41% - 60%	19	21.1	72	80.0
61% - 94%	14	15.6	86	95.6
VIRTUALLY ALL	4	4.4	90	100.0

TAUGHT THIS YEAR

T026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	45	50.6	45	50.6
REVIEWED THEN EX	44	49.4	89	100.0

WHY NOT OTL

W026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	56	.	.	.
TAUGHT PRIOR YEA	3	7.0	3	7.0
BE TAUGHT LATER	33	76.7	36	83.7
NOT IN CURRICULU	4	9.3	40	93.0
ALL OTHER REASON	3	7.0	43	100.0

APP027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	50	55.6	50	55.6
6% - 40%	16	17.8	66	73.3
41% - 60%	10	11.1	76	84.4
61% - 94%	5	5.6	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	56	62.9	56	62.9
REVIEWED THEN EX	33	37.1	89	100.0

WHY NOT OTL

W027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	43	.	.	.
TAUGHT PRIOR YEA	4	7.1	4	7.1
BE TAUGHT LATER	44	78.6	48	85.7
NOT IN CURRICULU	5	8.9	53	94.6
ALL OTHER REASON	3	5.4	56	100.0

APP028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	16	17.8	16	17.8
6% - 40%	27	30.0	43	47.8
41% - 60%	22	24.4	65	72.2
61% - 94%	10	11.1	75	83.3
VIRTUALLY ALL	15	16.7	90	100.0

TAUGHT THIS YEAR

T028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	57	64.8	57	64.8
REVIEWED THEN EX	31	35.2	88	100.0

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WHY NOT OTL

W028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	42	.	.	.
TAUGHT PRIOR YEA	21	36.8	21	36.8
BE TAUGHT LATER	30	52.6	51	89.5
NOT IN CURRICULU	2	3.5	53	93.0
ALL OTHER REASON	4	7.0	57	100.0

APP029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	55	61.1	55	61.1
6% - 40%	20	22.2	75	83.3
41% - 60%	5	5.6	80	88.9
61% - 94%	7	7.8	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	70	78.7	70	78.7
REVIEWED THEN EX	19	21.3	89	100.0

WHY NOT OTL

W029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	30	.	.	.
TAUGHT PRIOR YEA	12	17.4	12	17.4
BE TAUGHT LATER	38	55.1	50	72.5
NOT IN CURRICULU	11	15.9	61	88.4
ALL OTHER REASON	8	11.6	69	100.0

APP030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	20	22.2	20	22.2
6% - 40%	33	36.7	53	58.9
41% - 60%	23	25.6	76	84.4
61% - 94%	9	10.0	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	72	80.9	72	80.9
REVIEWED THEN EX	17	19.1	89	100.0

WHY NOT OTL

W030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	27	.	.	.
TAUGHT PRIOR YEA	5	6.9	5	6.9
BE TAUGHT LATER	7	9.7	12	16.7
NOT IN CURRICULU	48	66.7	60	83.3
ALL OTHER REASON	12	16.7	72	100.0

APP031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	17	19.1	17	19.1
6% - 40%	25	28.1	42	47.2
41% - 60%	28	31.5	70	78.7
61% - 94%	13	14.6	83	93.3
VIRTUALLY ALL	6	6.7	89	100.0

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TAUGHT THIS YEAR

T031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	63	71.6	63	71.6
REVIEWED THEN EX	25	28.4	88	100.0

WHY NOT OTL

W031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	38	.	.	.
TAUGHT PRIOR YEA	5	8.2	5	8.2
BE TAUGHT LATER	6	9.8	11	18.0
NOT IN CURRICULU	26	42.6	37	60.7
ALL OTHER REASON	24	39.3	61	100.0

APP032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	22	24.4	22	24.4
6% - 40%	24	26.7	46	51.1
41% - 60%	17	18.9	63	70.0
61% - 94%	14	15.6	77	85.6
VIRTUALLY ALL	13	14.4	90	100.0

TAUGHT THIS YEAR

T032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	51	57.3	51	57.3
REVIEWED THEN EX	38	42.7	89	100.0

WHY NOT OTL

W032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	50	.	.	.
TAUGHT PRIOR YEA	9	18.4	9	18.4
BE TAUGHT LATER	32	65.3	41	83.7
NOT IN CURRICULU	3	6.1	44	89.8
ALL OTHER REASON	5	10.2	49	100.0

APP033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	8	8.9	8	8.9
6% - 40%	16	17.8	24	26.7
41% - 60%	19	21.1	43	47.8
61% - 94%	24	26.7	67	74.4
VIRTUALLY ALL	23	25.6	90	100.0

TAUGHT THIS YEAR

T033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	39	43.8	39	43.8
REVIEWED THEN EX	50	56.2	89	100.0

WHY NOT OTL

W033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	62	.	.	.
TAUGHT PRIOR YEA	13	35.1	13	35.1
BE TAUGHT LATER	23	62.2	36	97.3
ALL OTHER REASON	1	2.7	37	100.0

APP034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	12	13.3	12	13.3
6% - 40%	14	15.6	26	28.9
41% - 60%	27	30.0	53	58.9
61% - 94%	26	28.9	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

TAUGHT THIS YEAR

T034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
TAUGHT AS NEW CO	42	48.3	42	48.3
REVIEWED THEN EX	45	51.7	87	100.0

WHY NOT OTL

W034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	58	.	.	.
TAUGHT PRIOR YEA	17	41.5	17	41.5
BE TAUGHT LATER	20	48.8	37	90.2
NOT IN CURRICULU	2	4.9	39	95.1
ALL OTHER REASON	2	4.9	41	100.0

APP035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	63	70.0	63	70.0
6% - 40%	8	8.9	71	78.9
41% - 60%	11	12.2	82	91.1
61% - 94%	5	5.6	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	77	87.5	77	87.5
REVIEWED THEN EX	11	12.5	88	100.0

WHY NOT OTL

W035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	22	.	.	.
TAUGHT PRIOR YEA	7	9.1	7	9.1
BE TAUGHT LATER	24	31.2	31	40.3
NOT IN CURRICULU	41	53.2	72	93.5
ALL OTHER REASON	5	6.5	77	100.0

APP036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	7	7.8	7	7.8
6% - 40%	12	13.3	19	21.1
41% - 60%	24	26.7	43	47.8
61% - 94%	23	25.6	66	73.3
VIRTUALLY ALL	24	26.7	90	100.0

TAUGHT THIS YEAR

T036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	50	56.2	50	56.2
REVIEWED THEN EX	39	43.8	89	100.0

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WHY NOT OTL

W036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	50	.	.	.
TAUGHT PRIOR YEA	9	18.4	9	18.4
BE TAUGHT LATER	7	14.3	16	32.7
NOT IN CURRICULU	9	18.4	25	51.0
ALL OTHER REASON	24	49.0	49	100.0

APP037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	7	7.8	7	7.8
6% - 40%	26	28.9	33	36.7
41% - 60%	33	36.7	66	73.3
61% - 94%	17	18.9	83	92.2
VIRTUALLY ALL	7	7.8	90	100.0

TAUGHT THIS YEAR

T037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	14	15.9	14	15.9
REVIEWED THEN EX	74	84.1	88	100.0

WHY NOT OTL

W037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
TAUGHT PRIOR YEA	4	30.8	4	30.8
BE TAUGHT LATER	4	30.8	8	61.5
NOT IN CURRICULU	2	15.4	10	76.9
ALL OTHER REASON	3	23.1	13	100.0

APP038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	4	4.5	4	4.5
6% - 40%	7	7.9	11	12.4
41% - 60%	27	30.3	38	42.7
61% - 94%	29	32.6	67	75.3
VIRTUALLY ALL	22	24.7	89	100.0

TAUGHT THIS YEAR

T038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	20	22.7	20	22.7
REVIEWED THEN EX	68	77.3	88	100.0

WHY NOT OTL

W038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
TAUGHT PRIOR YEA	8	42.1	8	42.1
BE TAUGHT LATER	7	36.8	15	78.9
ALL OTHER REASON	4	21.1	19	100.0

APP039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	5	5.6	9	10.0
41% - 60%	18	20.0	27	30.0
61% - 94%	32	35.6	59	65.6
VIRTUALLY ALL	31	34.4	90	100.0

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TAUGHT THIS YEAR

T039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	6	6.8	6	6.8
REVIEWED THEN EX	82	93.2	88	100.0

WHY NOT OTL

W039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
TAUGHT PRIOR YEA	2	40.0	2	40.0
BE TAUGHT LATER	2	40.0	4	80.0
ALL OTHER REASON	1	20.0	5	100.0

APP040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	20	22.2	24	26.7
41% - 60%	30	33.3	54	60.0
61% - 94%	27	30.0	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	12	13.6	12	13.6
REVIEWED THEN EX	76	86.4	88	100.0

WHY NOT OTL

W040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	8	72.7	8	72.7
BE TAUGHT LATER	1	9.1	9	81.8
ALL OTHER REASON	2	18.2	11	100.0

APP041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	3	3.4	3	3.4
6% - 40%	5	5.6	8	9.0
41% - 60%	9	10.1	17	19.1
61% - 94%	22	24.7	39	43.8
VIRTUALLY ALL	50	56.2	89	100.0

TAUGHT THIS YEAR

T041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	29	32.6	29	32.6
REVIEWED THEN EX	60	67.4	89	100.0

WHY NOT OTL

W041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
TAUGHT PRIOR YEA	27	93.1	27	93.1
BE TAUGHT LATER	1	3.4	28	96.6
ALL OTHER REASON	1	3.4	29	100.0

APP042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	33	36.7	37	41.1
41% - 60%	30	33.3	67	74.4
61% - 94%	17	18.9	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	21	23.6	21	23.6
REVIEWED THEN EX	68	76.4	89	100.0

WHY NOT OTL

W042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
TAUGHT PRIOR YEA	11	55.0	11	55.0
BE TAUGHT LATER	1	5.0	12	60.0
NOT IN CURRICULU	1	5.0	13	65.0
ALL OTHER REASON	7	35.0	20	100.0

APP043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	15	16.7	19	21.1
41% - 60%	32	35.6	51	56.7
61% - 94%	22	24.4	73	81.1
VIRTUALLY ALL	17	18.9	90	100.0

TAUGHT THIS YEAR

T043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	9	10.2	9	10.2
REVIEWED THEN EX	79	89.8	88	100.0

WHY NOT OTL

W043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
TAUGHT PRIOR YEA	7	87.5	7	87.5
ALL OTHER REASON	1	12.5	8	100.0

APP044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	30	33.3	32	35.6
41% - 60%	40	44.4	72	80.0
61% - 94%	13	14.4	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	14	15.7	14	15.7
REVIEWED THEN EX	75	84.3	89	100.0

WHY NOT OTL

W044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
TAUGHT PRIOR YEA	11	91.7	11	91.7
BE TAUGHT LATER	1	8.3	12	100.0

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APP045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	8	8.9	8	8.9
6% - 40%	24	26.7	32	35.6
41% - 60%	27	30.0	59	65.6
61% - 94%	22	24.4	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	21	23.6	21	23.6
REVIEWED THEN EX	68	76.4	89	100.0

WHY NOT OTL

W045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
TAUGHT PRIOR YEA	10	50.0	10	50.0
BE TAUGHT LATER	7	35.0	17	85.0
NOT IN CURRICULU	1	5.0	18	90.0
ALL OTHER REASON	2	10.0	20	100.0

APP046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	23	25.6	28	31.1
41% - 60%	24	26.7	52	57.8
61% - 94%	28	31.1	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

TAUGHT THIS YEAR

T046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	9	10.1	9	10.1
REVIEWED THEN EX	80	89.9	89	100.0

WHY NOT OTL

W046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
TAUGHT PRIOR YEA	4	50.0	4	50.0
BE TAUGHT LATER	2	25.0	6	75.0
NOT IN CURRICULU	1	12.5	7	87.5
ALL OTHER REASON	1	12.5	8	100.0

APP047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	13	14.4	14	15.6
41% - 60%	38	42.2	52	57.8
61% - 94%	28	31.1	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

TAUGHT THIS YEAR

T047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	9	10.1	9	10.1
REVIEWED THEN EX	80	89.9	89	100.0

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WHY NOT OTL

W047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
TAUGHT PRIOR YEA	6	75.0	6	75.0
BE TAUGHT LATER	1	12.5	7	87.5
ALL OTHER REASON	1	12.5	8	100.0

APP048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	19	21.1	19	21.1
6% - 40%	39	43.3	58	64.4
41% - 60%	19	21.1	77	85.6
61% - 94%	5	5.6	82	91.1
VIRTUALLY ALL	8	8.9	90	100.0

TAUGHT THIS YEAR

T048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	41	46.1	41	46.1
REVIEWED THEN EX	48	53.9	89	100.0

WHY NOT OTL

W048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	58	.	.	.
TAUGHT PRIOR YEA	10	24.4	10	24.4
BE TAUGHT LATER	7	17.1	17	41.5
NOT IN CURRICULU	22	53.7	39	95.1
ALL OTHER REASON	2	4.9	41	100.0

APP049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	13	14.4	15	16.7
41% - 60%	35	38.9	50	55.6
61% - 94%	23	25.6	73	81.1
VIRTUALLY ALL	17	18.9	90	100.0

TAUGHT THIS YEAR

T049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	8	9.0	8	9.0
REVIEWED THEN EX	81	91.0	89	100.0

WHY NOT OTL

W049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
TAUGHT PRIOR YEA	7	87.5	7	87.5
NOT IN CURRICULU	1	12.5	8	100.0

APP052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	25	27.8	25	27.8
6% - 40%	33	36.7	58	64.4
41% - 60%	22	24.4	80	88.9
61% - 94%	9	10.0	89	98.9
VIRTUALLY ALL	1	1.1	90	100.0

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TAUGHT THIS YEAR

T052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10			
TAUGHT AS NEW CO	31	34.8	31	34.8
REVIEWED THEN EX	58	65.2	89	100.0

WHY NOT OTL

W052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	69			
TAUGHT PRIOR YEA	5	16.7	5	16.7
BE TAUGHT LATER	8	26.7	13	43.3
NOT IN CURRICULU	9	30.0	22	73.3
ALL OTHER REASON	8	26.7	30	100.0

APP053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
VIRTUALLY NONE	7	7.8	7	7.8
6% - 40%	27	30.0	34	37.8
41% - 60%	32	35.6	66	73.3
61% - 94%	19	21.1	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10			
TAUGHT AS NEW CO	16	18.0	16	18.0
REVIEWED THEN EX	73	82.0	89	100.0

WHY NOT OTL

W053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	84			
TAUGHT PRIOR YEA	5	33.3	5	33.3
BE TAUGHT LATER	2	13.3	7	46.7
NOT IN CURRICULU	2	13.3	9	60.0
ALL OTHER REASON	6	40.0	15	100.0

APP054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
VIRTUALLY NONE	10	11.1	10	11.1
6% - 40%	25	27.8	35	38.9
41% - 60%	35	38.9	70	77.8
61% - 94%	13	14.4	83	92.2
VIRTUALLY ALL	7	7.8	90	100.0

TAUGHT THIS YEAR

T054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10			
TAUGHT AS NEW CO	17	19.1	17	19.1
REVIEWED THEN EX	72	80.9	89	100.0

WHY NOT OTL

W054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	82			
TAUGHT PRIOR YEA	5	29.4	5	29.4
NOT IN CURRICULU	4	23.5	9	52.9
ALL OTHER REASON	8	47.1	17	100.0

APP055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
VIRTUALLY NONE	52	57.8	52	57.8
6% - 40%	20	22.2	72	80.0
41% - 60%	11	12.2	83	92.2
61% - 94%	4	4.4	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10			
TAUGHT AS NEW CO	69	77.5	69	77.5
REVIEWED THEN EX	20	22.5	89	100.0

WHY NOT OTL

W055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	30			
TAUGHT PRIOR YEA	3	4.3	3	4.3
BE TAUGHT LATER	32	46.4	35	50.7
NOT IN CURRICULU	19	27.5	54	78.3
ALL OTHER REASON	15	21.7	69	100.0

APP057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	18	20.0	20	22.2
41% - 60%	33	36.7	53	58.9
61% - 94%	27	30.0	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

TAUGHT THIS YEAR

T057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10			
TAUGHT AS NEW CO	9	10.1	9	10.1
REVIEWED THEN EX	80	89.9	89	100.0

WHY NOT OTL

W057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90			
TAUGHT PRIOR YEA	5	55.6	5	55.6
BE TAUGHT LATER	3	33.3	8	88.9
ALL OTHER REASON	1	11.1	9	100.0

APP058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
VIRTUALLY NONE	13	14.4	13	14.4
6% - 40%	16	17.8	29	32.2
41% - 60%	20	22.2	49	54.4
61% - 94%	24	26.7	73	81.1
VIRTUALLY ALL	17	18.9	90	100.0

TAUGHT THIS YEAR

T058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10			
TAUGHT AS NEW CO	25	28.1	25	28.1
REVIEWED THEN EX	64	71.9	89	100.0

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WHY NOT OTL

W058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	75	.	.	.
TAUGHT PRIOR YEA	3	12.5	3	12.5
BE TAUGHT LATER	21	87.5	24	100.0

APP059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	15	16.7	15	16.7
6% - 40%	29	32.2	44	48.9
41% - 60%	29	32.2	73	81.1
61% - 94%	10	11.1	83	92.2
VIRTUALLY ALL	7	7.8	90	100.0

TAUGHT THIS YEAR

T059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	36	40.9	36	40.9
REVIEWED THEN EX	52	59.1	88	100.0

WHY NOT OTL

W059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	63	.	.	.
TAUGHT PRIOR YEA	6	16.7	6	16.7
BE TAUGHT LATER	20	55.6	26	72.2
NOT IN CURRICULU	5	13.9	31	86.1
ALL OTHER REASON	5	13.9	36	100.0

APP062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
VIRTUALLY NONE	19	21.3	19	21.3
6% - 40%	28	31.5	47	52.8
41% - 60%	30	33.7	77	86.5
61% - 94%	7	7.9	84	94.4
VIRTUALLY ALL	5	5.6	89	100.0

TAUGHT THIS YEAR

T062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	35	39.8	35	39.8
REVIEWED THEN EX	53	60.2	88	100.0

WHY NOT OTL

W062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	64	.	.	.
TAUGHT PRIOR YEA	9	25.7	9	25.7
BE TAUGHT LATER	19	54.3	28	80.0
NOT IN CURRICULU	6	17.1	34	97.1
ALL OTHER REASON	1	2.9	35	100.0

APP063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	43	47.8	43	47.8
6% - 40%	23	25.6	66	73.3
41% - 60%	14	15.6	80	88.9
61% - 94%	7	7.8	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

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TAUGHT THIS YEAR

T063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	74	83.1	74	83.1
REVIEWED THEN EX	15	16.9	89	100.0

WHY NOT OTL

W063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	26	.	.	.
BE TAUGHT LATER	13	17.8	13	17.8
NOT IN CURRICULU	47	64.4	60	82.2
ALL OTHER REASON	13	17.8	73	100.0

APP065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	14	15.6	14	15.6
6% - 40%	24	26.7	38	42.2
41% - 60%	30	33.3	68	75.6
61% - 94%	13	14.4	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	62	69.7	62	69.7
REVIEWED THEN EX	27	30.3	89	100.0

WHY NOT OTL

W065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	37	.	.	.
TAUGHT PRIOR YEA	2	3.2	2	3.2
BE TAUGHT LATER	10	16.1	12	19.4
NOT IN CURRICULU	26	41.9	38	61.3
ALL OTHER REASON	24	38.7	62	100.0

APP066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	16	17.8	16	17.8
6% - 40%	29	32.2	45	50.0
41% - 60%	23	25.6	68	75.6
61% - 94%	15	16.7	83	92.2
VIRTUALLY ALL	7	7.8	90	100.0

TAUGHT THIS YEAR

T066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	40	44.9	40	44.9
REVIEWED THEN EX	49	55.1	89	100.0

WHY NOT OTL

W066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	60	.	.	.
TAUGHT PRIOR YEA	7	17.9	7	17.9
BE TAUGHT LATER	26	66.7	33	84.6
NOT IN CURRICULU	2	5.1	35	89.7
ALL OTHER REASON	4	10.3	39	100.0

APP067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	22	24.4	22	24.4
6% - 40%	27	30.0	49	54.4
41% - 60%	22	24.4	71	78.9
61% - 94%	12	13.3	83	92.2
VIRTUALLY ALL	7	7.8	90	100.0

TAUGHT THIS YEAR

T067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	42	47.2	42	47.2
REVIEWED THEN EX	47	52.8	89	100.0

WHY NOT OTL

W067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	59	.	.	.
TAUGHT PRIOR YEA	8	20.0	8	20.0
BE TAUGHT LATER	17	42.5	25	62.5
NOT IN CURRICULU	8	20.0	33	82.5
ALL OTHER REASON	7	17.5	40	100.0

APP068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	1	1.1	3	3.3
41% - 60%	3	3.3	6	6.7
61% - 94%	17	18.9	23	25.6
VIRTUALLY ALL	67	74.4	90	100.0

TAUGHT THIS YEAR

T068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	18	20.2	18	20.2
REVIEWED THEN EX	71	79.8	89	100.0

WHY NOT OTL

W068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
TAUGHT PRIOR YEA	8	47.1	8	47.1
BE TAUGHT LATER	5	29.4	13	76.5
ALL OTHER REASON	4	23.5	17	100.0

APP069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	3	3.4	3	3.4
6% - 40%	16	18.0	19	21.3
41% - 60%	23	25.8	42	47.2
61% - 94%	31	34.8	73	82.0
VIRTUALLY ALL	16	18.0	89	100.0

TAUGHT THIS YEAR

T069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
TAUGHT AS NEW CO	29	33.7	29	33.7
REVIEWED THEN EX	57	66.3	86	100.0

THAILAND -- POPULATION A
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WHY NOT OTL

W069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
TAUGHT PRIOR YEA	5	18.5	5	18.5
BE TAUGHT LATER	10	37.0	15	55.6
NOT IN CURRICULU	3	11.1	18	66.7
ALL OTHER REASON	9	33.3	27	100.0

APP070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	11	12.2	12	13.3
41% - 60%	34	37.8	46	51.1
61% - 94%	32	35.6	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

TAUGHT THIS YEAR

T070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	11	12.4	11	12.4
REVIEWED THEN EX	78	87.6	89	100.0

WHY NOT OTL

W070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	8	72.7	8	72.7
BE TAUGHT LATER	2	18.2	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	8	8.9	8	8.9
6% - 40%	30	33.3	38	42.2
41% - 60%	25	27.8	63	70.0
61% - 94%	17	18.9	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

TAUGHT THIS YEAR

T071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	33	37.1	33	37.1
REVIEWED THEN EX	56	62.9	89	100.0

WHY NOT OTL

W071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
TAUGHT PRIOR YEA	10	31.3	10	31.3
BE TAUGHT LATER	2	6.3	12	37.5
NOT IN CURRICULU	10	31.3	22	68.8
ALL OTHER REASON	10	31.3	32	100.0

APP072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	18	20.0	19	21.1
41% - 60%	25	27.8	44	48.9
61% - 94%	32	35.6	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

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TAUGHT THIS YEAR

T072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	4	4.5	4	4.5
REVIEWED THEN EX	85	95.5	89	100.0

WHY NOT OTL

W072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
TAUGHT PRIOR YEA	1	33.3	1	33.3
BE TAUGHT LATER	2	66.7	3	100.0

APP073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	4	4.4	5	5.6
41% - 60%	16	17.8	21	23.3
61% - 94%	24	26.7	45	50.0
VIRTUALLY ALL	45	50.0	90	100.0

TAUGHT THIS YEAR

T073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	22	25.0	22	25.0
REVIEWED THEN EX	66	75.0	88	100.0

WHY NOT OTL

W073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
TAUGHT PRIOR YEA	21	91.3	21	91.3
NOT IN CURRICULU	1	4.3	22	95.7
ALL OTHER REASON	1	4.3	23	100.0

APP074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	41	45.6	41	45.6
6% - 40%	26	28.9	67	74.4
41% - 60%	13	14.4	80	88.9
61% - 94%	10	11.1	90	100.0

TAUGHT THIS YEAR

T074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	69	78.4	69	78.4
REVIEWED THEN EX	19	21.6	88	100.0

WHY NOT OTL

W074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	28	.	.	.
TAUGHT PRIOR YEA	3	4.2	3	4.2
BE TAUGHT LATER	6	8.5	9	12.7
NOT IN CURRICULU	40	56.3	49	69.0
ALL OTHER REASON	22	31.0	71	100.0

APP075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	10	11.1	13	14.4
41% - 60%	24	26.7	37	41.1
61% - 94%	29	32.2	66	73.3
VIRTUALLY ALL	24	26.7	90	100.0

TAUGHT THIS YEAR

T075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	18	20.2	18	20.2
REVIEWED THEN EX	71	79.8	89	100.0

WHY NOT OTL

W075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	13	72.2	13	72.2
BE TAUGHT LATER	3	16.7	16	88.9
NOT IN CURRICULU	1	5.6	17	94.4
ALL OTHER REASON	1	5.6	18	100.0

APP076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	21	23.6	21	23.6
6% - 40%	30	33.7	51	57.3
41% - 60%	25	28.1	76	85.4
61% - 94%	11	12.4	87	97.8
VIRTUALLY ALL	2	2.2	89	100.0

TAUGHT THIS YEAR

T076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	25	28.4	25	28.4
REVIEWED THEN EX	63	71.6	88	100.0

WHY NOT OTL

W076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
TAUGHT PRIOR YEA	13	52.0	13	52.0
BE TAUGHT LATER	2	8.0	15	60.0
NOT IN CURRICULU	2	8.0	17	68.0
ALL OTHER REASON	8	32.0	25	100.0

APP077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
VIRTUALLY NONE	7	8.0	7	8.0
6% - 40%	32	36.4	39	44.3
41% - 60%	22	25.0	61	69.3
61% - 94%	20	22.7	81	92.0
VIRTUALLY ALL	7	8.0	88	100.0

TAUGHT THIS YEAR

T077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	20	22.5	20	22.5
REVIEWED THEN EX	69	77.5	89	100.0

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WHY NOT OTL

W077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
TAUGHT PRIOR YEA	8	42.1	8	42.1
BE TAUGHT LATER	5	26.3	13	68.4
NOT IN CURRICULU	1	5.3	14	73.7
ALL OTHER REASON	5	26.3	19	100.0

APP078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	18	20.0	19	21.1
41% - 60%	33	36.7	52	57.8
61% - 94%	26	28.9	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

TAUGHT THIS YEAR

T078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	8	9.1	8	9.1
REVIEWED THEN EX	80	90.9	88	100.0

WHY NOT OTL

W078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
TAUGHT PRIOR YEA	4	57.1	4	57.1
BE TAUGHT LATER	2	28.6	6	85.7
ALL OTHER REASON	1	14.3	7	100.0

APP079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	11	12.2	15	16.7
41% - 60%	26	28.9	41	45.6
61% - 94%	35	38.9	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	6	6.7	6	6.7
REVIEWED THEN EX	83	93.3	89	100.0

WHY NOT OTL

W079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
TAUGHT PRIOR YEA	2	40.0	2	40.0
BE TAUGHT LATER	1	20.0	3	60.0
ALL OTHER REASON	2	40.0	5	100.0

APP080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	11	12.4	11	12.4
6% - 40%	14	15.7	25	28.1
41% - 60%	31	34.8	56	62.9
61% - 94%	16	18.0	72	80.9
VIRTUALLY ALL	17	19.1	89	100.0

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TAUGHT THIS YEAR

T080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	52	59.1	52	59.1
REVIEWED THEN EX	36	40.9	88	100.0

WHY NOT OTL

W080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
TAUGHT PRIOR YEA	42	82.4	42	82.4
BE TAUGHT LATER	3	5.9	45	88.2
NOT IN CURRICULU	4	7.8	49	96.1
ALL OTHER REASON	2	3.9	51	100.0

APP081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	35	38.9	35	38.9
6% - 40%	16	17.8	51	56.7
41% - 60%	21	23.3	72	80.0
61% - 94%	10	11.1	82	91.1
VIRTUALLY ALL	8	8.9	90	100.0

TAUGHT THIS YEAR

T081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	48	54.5	48	54.5
REVIEWED THEN EX	40	45.5	88	100.0

WHY NOT OTL

W081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	51	.	.	.
TAUGHT PRIOR YEA	4	8.3	4	8.3
BE TAUGHT LATER	27	56.3	31	64.6
NOT IN CURRICULU	15	31.3	46	95.8
ALL OTHER REASON	2	4.2	48	100.0

APP082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	13	14.4	18	20.0
41% - 60%	30	33.3	48	53.3
61% - 94%	28	31.1	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	9	10.1	9	10.1
REVIEWED THEN EX	80	89.9	89	100.0

WHY NOT OTL

W082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
TAUGHT PRIOR YEA	4	50.0	4	50.0
BE TAUGHT LATER	2	25.0	6	75.0
ALL OTHER REASON	2	25.0	8	100.0

APP084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
VIRTUALLY NONE	32	36.0	32	36.0
6% - 40%	17	19.1	49	55.1
41% - 60%	25	28.1	74	83.1
61% - 94%	12	13.5	86	96.6
VIRTUALLY ALL	3	3.4	89	100.0

TAUGHT THIS YEAR

T084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	58	65.9	58	65.9
REVIEWED THEN EX	30	34.1	88	100.0

WHY NOT OTL

W084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	41	.	.	.
TAUGHT PRIOR YEA	4	6.9	4	6.9
BE TAUGHT LATER	17	29.3	21	36.2
NOT IN CURRICULU	23	39.7	44	75.9
ALL OTHER REASON	14	24.1	58	100.0

APP085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	9	10.0	10	11.1
41% - 60%	31	34.4	41	45.6
61% - 94%	31	34.4	72	80.0
VIRTUALLY ALL	18	20.0	90	100.0

TAUGHT THIS YEAR

T085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	77	86.5	89	100.0

WHY NOT OTL

W085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	88	.	.	.
TAUGHT PRIOR YEA	10	90.9	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	9	10.0	13	14.4
41% - 60%	33	36.7	46	51.1
61% - 94%	31	34.4	77	85.6
VIRTUALLY ALL	13	14.4	90	100.0

TAUGHT THIS YEAR

T086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	8	9.0	8	9.0
REVIEWED THEN EX	81	91.0	89	100.0

WHY NOT OTL

W086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92	.	.	.
TAUGHT PRIOR YEA	7	100.0	7	100.0

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APP087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
VIRTUALLY NONE	9	10.1	9	10.1
6% - 40%	31	34.8	40	44.9
41% - 60%	25	28.1	65	73.0
61% - 94%	21	23.6	86	96.6
VIRTUALLY ALL	3	3.4	89	100.0

TAUGHT THIS YEAR

T087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	18	20.2	18	20.2
REVIEWED THEN EX	71	79.8	89	100.0

WHY NOT OTL

W087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	83	.	.	.
TAUGHT PRIOR YEA	4	25.0	4	25.0
BE TAUGHT LATER	2	12.5	6	37.5
NOT IN CURRICULU	3	18.8	9	56.3
ALL OTHER REASON	7	43.8	16	100.0

APP088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	27	30.0	32	35.6
41% - 60%	33	36.7	65	72.2
61% - 94%	20	22.2	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	9	10.2	9	10.2
REVIEWED THEN EX	79	89.8	88	100.0

WHY NOT OTL

W088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	91	.	.	.
TAUGHT PRIOR YEA	5	62.5	5	62.5
BE TAUGHT LATER	1	12.5	6	75.0
ALL OTHER REASON	2	25.0	8	100.0

APP089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	7	7.8	9	10.0
41% - 60%	15	16.7	24	26.7
61% - 94%	26	28.9	50	55.6
VIRTUALLY ALL	40	44.4	90	100.0

TAUGHT THIS YEAR

T089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	23	25.8	23	25.8
REVIEWED THEN EX	66	74.2	89	100.0

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WHY NOT OTL

W089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
TAUGHT PRIOR YEA	19	90.5	19	90.5
BE TAUGHT LATER	2	9.5	21	100.0

APP090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	23	25.6	23	25.6
6% - 40%	23	25.6	46	51.1
41% - 60%	24	26.7	70	77.8
61% - 94%	15	16.7	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	45	50.6	45	50.6
REVIEWED THEN EX	44	49.4	89	100.0

WHY NOT OTL

W090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
TAUGHT PRIOR YEA	8	17.8	8	17.8
BE TAUGHT LATER	18	40.0	26	57.8
NOT IN CURRICULU	16	35.6	42	93.3
ALL OTHER REASON	3	6.7	45	100.0

APP091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	10	11.2	12	13.5
41% - 60%	25	28.1	37	41.6
61% - 94%	17	19.1	54	60.7
VIRTUALLY ALL	35	39.3	89	100.0

TAUGHT THIS YEAR

T091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	18	20.2	18	20.2
REVIEWED THEN EX	71	79.8	89	100.0

WHY NOT OTL

W091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	7	38.9	7	38.9
BE TAUGHT LATER	6	33.3	13	72.2
ALL OTHER REASON	5	27.8	18	100.0

APP093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	46	51.1	46	51.1
6% - 40%	12	13.3	58	64.4
41% - 60%	9	10.0	67	74.4
61% - 94%	12	13.3	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

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TAUGHT THIS YEAR

T093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	58	65.2	58	65.2
REVIEWED THEN EX	31	34.8	89	100.0

WHY NOT OTL

W093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	41	.	.	.
TAUGHT PRIOR YEA	2	3.4	2	3.4
BE TAUGHT LATER	47	81.0	49	84.5
NOT IN CURRICULU	6	10.3	55	94.8
ALL OTHER REASON	3	5.2	58	100.0

APP096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	39	43.3	39	43.3
6% - 40%	22	24.4	61	67.8
41% - 60%	20	22.2	81	90.0
61% - 94%	6	6.7	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	57	64.0	57	64.0
REVIEWED THEN EX	32	36.0	89	100.0

WHY NOT OTL

W096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	43	.	.	.
BE TAUGHT LATER	15	26.8	15	26.8
NOT IN CURRICULU	25	44.6	40	71.4
ALL OTHER REASON	16	28.6	56	100.0

APP097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	32	35.6	32	35.6
6% - 40%	18	20.0	50	55.6
41% - 60%	12	13.3	62	68.9
61% - 94%	16	17.8	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

TAUGHT THIS YEAR

T097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	56	62.9	56	62.9
REVIEWED THEN EX	33	37.1	89	100.0

WHY NOT OTL

W097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	44	.	.	.
TAUGHT PRIOR YEA	4	7.3	4	7.3
BE TAUGHT LATER	45	81.8	49	89.1
NOT IN CURRICULU	5	9.1	54	98.2
ALL OTHER REASON	1	1.8	55	100.0

APP098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	25	27.8	25	27.8
6% - 40%	31	34.4	56	62.2
41% - 60%	25	27.8	81	90.0
61% - 94%	6	6.7	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	12	.	.	.
TAUGHT AS NEW CO	58	66.7	58	66.7
REVIEWED THEN EX	29	33.3	87	100.0

WHY NOT OTL

W098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	42	.	.	.
TAUGHT PRIOR YEA	12	21.1	12	21.1
BE TAUGHT LATER	40	70.2	52	91.2
NOT IN CURRICULU	3	5.3	55	96.5
ALL OTHER REASON	2	3.5	57	100.0

APP099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	31	34.4	31	34.4
6% - 40%	29	32.2	60	66.7
41% - 60%	15	16.7	75	83.3
61% - 94%	11	12.2	86	95.6
VIRTUALLY ALL	4	4.4	90	100.0

TAUGHT THIS YEAR

T099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	56	62.9	56	62.9
REVIEWED THEN EX	33	37.1	89	100.0

WHY NOT OTL

W099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	43	.	.	.
TAUGHT PRIOR YEA	11	19.6	11	19.6
BE TAUGHT LATER	30	53.6	41	73.2
NOT IN CURRICULU	9	16.1	50	89.3
ALL OTHER REASON	6	10.7	56	100.0

APP100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	7	7.8	7	7.8
6% - 40%	38	42.2	45	50.0
41% - 60%	26	28.9	71	78.9
61% - 94%	13	14.4	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	30	33.7	30	33.7
REVIEWED THEN EX	59	66.3	89	100.0

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WHY NOT OTL

W100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	69	.	.	.
TAUGHT PRIOR YEA	18	60.0	18	60.0
BE TAUGHT LATER	2	6.7	20	66.7
NOT IN CURRICULU	3	10.0	23	76.7
ALL OTHER REASON	7	23.3	30	100.0

APP101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	7	7.8	10	11.1
41% - 60%	12	13.3	22	24.4
61% - 94%	34	37.8	56	62.2
VIRTUALLY ALL	34	37.8	90	100.0

TAUGHT THIS YEAR

T101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	14	15.7	14	15.7
REVIEWED THEN EX	75	84.3	89	100.0

WHY NOT OTL

W101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	85	.	.	.
TAUGHT PRIOR YEA	12	85.7	12	85.7
BE TAUGHT LATER	1	7.1	13	92.9
ALL OTHER REASON	1	7.1	14	100.0

APP102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	11	12.2	11	12.2
6% - 40%	11	12.2	22	24.4
41% - 60%	33	36.7	55	61.1
61% - 94%	21	23.3	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	31	34.8	31	34.8
REVIEWED THEN EX	58	65.2	89	100.0

WHY NOT OTL

W102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	68	.	.	.
TAUGHT PRIOR YEA	16	51.6	16	51.6
BE TAUGHT LATER	5	16.1	21	67.7
NOT IN CURRICULU	3	9.7	24	77.4
ALL OTHER REASON	7	22.6	31	100.0

APP103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	9	10.0	13	14.4
41% - 60%	36	40.0	49	54.4
61% - 94%	20	22.2	69	76.7
VIRTUALLY ALL	21	23.3	90	100.0

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TAUGHT THIS YEAR

T103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	11	12.4	11	12.4
REVIEWED THEN EX	78	87.6	89	100.0

WHY NOT OTL

W103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	8	72.7	8	72.7
BE TAUGHT LATER	2	18.2	10	90.9
NOT IN CURRICULU	1	9.1	11	100.0

APP104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	9	10.0	9	10.0
6% - 40%	26	28.9	35	38.9
41% - 60%	34	37.8	69	76.7
61% - 94%	12	13.3	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	16	18.0	16	18.0
REVIEWED THEN EX	73	82.0	89	100.0

WHY NOT OTL

W104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
TAUGHT PRIOR YEA	5	33.3	5	33.3
BE TAUGHT LATER	4	26.7	9	60.0
ALL OTHER REASON	6	40.0	15	100.0

APP105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	7	7.9	7	7.9
6% - 40%	24	27.0	31	34.8
41% - 60%	33	37.1	64	71.9
61% - 94%	15	16.9	79	88.8
VIRTUALLY ALL	10	11.2	89	100.0

TAUGHT THIS YEAR

T105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	13	14.6	13	14.6
REVIEWED THEN EX	76	85.4	89	100.0

WHY NOT OTL

W105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
TAUGHT PRIOR YEA	6	50.0	6	50.0
NOT IN CURRICULU	2	16.7	8	66.7
ALL OTHER REASON	4	33.3	12	100.0

APP106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	13	14.4	13	14.4
6% - 40%	24	26.7	37	41.1
41% - 60%	33	36.7	70	77.8
61% - 94%	16	17.8	86	95.6
VIRTUALLY ALL	4	4.4	90	100.0

TAUGHT THIS YEAR

T106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	15	16.9	15	16.9
REVIEWED THEN EX	74	83.1	89	100.0

WHY NOT OTL

W106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
TAUGHT PRIOR YEA	3	25.0	3	25.0
ALL OTHER REASON	9	75.0	12	100.0

APP107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	17	18.9	19	21.1
41% - 60%	25	27.8	44	48.9
61% - 94%	31	34.4	75	83.3
VIRTUALLY ALL	15	16.7	90	100.0

TAUGHT THIS YEAR

T107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	21	23.6	21	23.6
REVIEWED THEN EX	68	76.4	89	100.0

WHY NOT OTL

W107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
TAUGHT PRIOR YEA	19	90.5	19	90.5
BE TAUGHT LATER	1	4.8	20	95.2
ALL OTHER REASON	1	4.8	21	100.0

APP108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	8	8.9	8	8.9
6% - 40%	31	34.4	39	43.3
41% - 60%	30	33.3	69	76.7
61% - 94%	10	11.1	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

TAUGHT THIS YEAR

T108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	26	29.2	26	29.2
REVIEWED THEN EX	63	70.8	89	100.0

WHY NOT OTL

W108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
TAUGHT PRIOR YEA	23	88.5	23	88.5
BE TAUGHT LATER	2	7.7	25	96.2
NOT IN CURRICULU	1	3.8	26	100.0

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APP109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	7	7.8	9	10.0
41% - 60%	13	14.4	22	24.4
61% - 94%	32	35.6	54	60.0
VIRTUALLY ALL	36	40.0	90	100.0

TAUGHT THIS YEAR

T109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	19	21.3	19	21.3
REVIEWED THEN EX	70	78.7	89	100.0

WHY NOT OTL

W109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	15	83.3	15	83.3
BE TAUGHT LATER	2	11.1	17	94.4
ALL OTHER REASON	1	5.6	18	100.0

APP110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	20	22.2	24	26.7
41% - 60%	37	41.1	61	67.8
61% - 94%	20	22.2	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	4	4.5	4	4.5
REVIEWED THEN EX	84	95.5	88	100.0

WHY NOT OTL

W110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
TAUGHT PRIOR YEA	2	50.0	2	50.0
ALL OTHER REASON	2	50.0	4	100.0

APP111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	13	14.4	17	18.9
41% - 60%	33	36.7	50	55.6
61% - 94%	20	22.2	70	77.8
VIRTUALLY ALL	20	22.2	90	100.0

TAUGHT THIS YEAR

T111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	77	86.5	89	100.0

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WHY NOT OTL

W111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	9	81.8	9	81.8
BE TAUGHT LATER	1	9.1	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	10	11.1	10	11.1
6% - 40%	23	25.6	33	36.7
41% - 60%	25	27.8	58	64.4
61% - 94%	23	25.6	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	21	23.6	21	23.6
REVIEWED THEN EX	68	76.4	89	100.0

WHY NOT OTL

W112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
TAUGHT PRIOR YEA	18	85.7	18	85.7
NOT IN CURRICULU	3	14.3	21	100.0

APP113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	16	17.8	17	18.9
41% - 60%	28	31.1	45	50.0
61% - 94%	27	30.0	72	80.0
VIRTUALLY ALL	18	20.0	90	100.0

TAUGHT THIS YEAR

T113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	10	11.2	10	11.2
REVIEWED THEN EX	79	88.8	89	100.0

WHY NOT OTL

W113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
TAUGHT PRIOR YEA	8	88.9	8	88.9
BE TAUGHT LATER	1	11.1	9	100.0

APP115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	13	14.4	16	17.8
41% - 60%	37	41.1	53	58.9
61% - 94%	27	30.0	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

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TAUGHT THIS YEAR

T115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	3	3.4	3	3.4
REVIEWED THEN EX	86	96.6	89	100.0

WHY NOT OTL

W115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
TAUGHT PRIOR YEA	2	66.7	2	66.7
BE TAUGHT LATER	1	33.3	3	100.0

APP116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	13	14.4	17	18.9
41% - 60%	41	45.6	58	64.4
61% - 94%	19	21.1	77	85.6
VIRTUALLY ALL	13	14.4	90	100.0

TAUGHT THIS YEAR

T116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	77	86.5	89	100.0

WHY NOT OTL

W116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	5	45.5	5	45.5
BE TAUGHT LATER	2	18.2	7	63.6
NOT IN CURRICULU	1	9.1	8	72.7
ALL OTHER REASON	3	27.3	11	100.0

APP117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	33	36.7	36	40.0
41% - 60%	30	33.3	66	73.3
61% - 94%	21	23.3	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	11	12.4	11	12.4
REVIEWED THEN EX	78	87.6	89	100.0

WHY NOT OTL

W117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
TAUGHT PRIOR YEA	6	60.0	6	60.0
BE TAUGHT LATER	4	40.0	10	100.0

APP118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	11	12.2	13	14.4
41% - 60%	34	37.8	47	52.2
61% - 94%	26	28.9	73	81.1
VIRTUALLY ALL	17	18.9	90	100.0

TAUGHT THIS YEAR

T118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	6	6.7	6	6.7
REVIEWED THEN EX	83	93.3	89	100.0

WHY NOT OTL

W118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
TAUGHT PRIOR YEA	4	66.7	4	66.7
BE TAUGHT LATER	1	16.7	5	83.3
ALL OTHER REASON	1	16.7	6	100.0

APP120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	77	85.6	77	85.6
6% - 40%	6	6.7	83	92.2
41% - 60%	3	3.3	86	95.6
61% - 94%	2	2.2	88	97.8
VIRTUALLY ALL	2	2.2	90	100.0

TAUGHT THIS YEAR

T120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	83	93.3	83	93.3
REVIEWED THEN EX	6	6.7	89	100.0

WHY NOT OTL

W120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	16	.	.	.
TAUGHT PRIOR YEA	4	4.8	4	4.8
BE TAUGHT LATER	6	7.2	10	12.0
NOT IN CURRICULU	72	86.7	82	98.8
ALL OTHER REASON	1	1.2	83	100.0

APP121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	2	2.2	6	6.7
41% - 60%	8	8.9	14	15.6
61% - 94%	25	27.8	39	43.3
VIRTUALLY ALL	51	56.7	90	100.0

TAUGHT THIS YEAR

T121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	27	30.7	27	30.7
REVIEWED THEN EX	61	69.3	88	100.0

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WHY NOT OTL

W121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
TAUGHT PRIOR YEA	23	85.2	23	85.2
BE TAUGHT LATER	2	7.4	25	92.6
NOT IN CURRICULU	1	3.7	26	96.3
ALL OTHER REASON	1	3.7	27	100.0

APP122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	8	8.9	12	13.3
41% - 60%	10	11.1	22	24.4
61% - 94%	23	25.6	45	50.0
VIRTUALLY ALL	45	50.0	90	100.0

TAUGHT THIS YEAR

T122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	24	27.0	24	27.0
REVIEWED THEN EX	65	73.0	89	100.0

WHY NOT OTL

W122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
TAUGHT PRIOR YEA	11	50.0	11	50.0
BE TAUGHT LATER	11	50.0	22	100.0

APP123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	6	6.7	6	6.7
6% - 40%	23	25.6	29	32.2
41% - 60%	28	31.1	57	63.3
61% - 94%	18	20.0	75	83.3
VIRTUALLY ALL	15	16.7	90	100.0

TAUGHT THIS YEAR

T123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	34	38.2	34	38.2
REVIEWED THEN EX	55	61.8	89	100.0

WHY NOT OTL

W123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
TAUGHT PRIOR YEA	15	46.9	15	46.9
BE TAUGHT LATER	9	28.1	24	75.0
NOT IN CURRICULU	4	12.5	28	87.5
ALL OTHER REASON	4	12.5	32	100.0

APP125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	21	23.3	21	23.3
6% - 40%	17	18.9	38	42.2
41% - 60%	17	18.9	55	61.1
61% - 94%	20	22.2	75	83.3
VIRTUALLY ALL	15	16.7	90	100.0

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TAUGHT THIS YEAR

T125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	36	40.4	36	40.4
REVIEWED THEN EX	53	59.6	89	100.0

WHY NOT OTL

W125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
TAUGHT PRIOR YEA	4	11.4	4	11.4
BE TAUGHT LATER	29	82.9	33	94.3
ALL OTHER REASON	2	5.7	35	100.0

APP126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	35	39.3	35	39.3
6% - 40%	24	27.0	59	66.3
41% - 60%	12	13.5	71	79.8
61% - 94%	11	12.4	82	92.1
VIRTUALLY ALL	7	7.9	89	100.0

TAUGHT THIS YEAR

T126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	66	74.2	66	74.2
REVIEWED THEN EX	23	25.8	89	100.0

WHY NOT OTL

W126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	34	.	.	.
TAUGHT PRIOR YEA	14	21.5	14	21.5
BE TAUGHT LATER	40	61.5	54	83.1
NOT IN CURRICULU	7	10.8	61	93.8
ALL OTHER REASON	4	6.2	65	100.0

APP127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	18	20.0	18	20.0
6% - 40%	29	32.2	47	52.2
41% - 60%	15	16.7	62	68.9
61% - 94%	22	24.4	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	33	37.1	33	37.1
REVIEWED THEN EX	56	62.9	89	100.0

WHY NOT OTL

W127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	66	.	.	.
TAUGHT PRIOR YEA	3	9.1	3	9.1
BE TAUGHT LATER	23	69.7	26	78.8
NOT IN CURRICULU	2	6.1	28	84.8
ALL OTHER REASON	5	15.2	33	100.0

APP128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	8	8.9	8	8.9
6% - 40%	19	21.1	27	30.0
41% - 60%	33	36.7	60	66.7
61% - 94%	17	18.9	77	85.6
VIRTUALLY ALL	13	14.4	90	100.0

TAUGHT THIS YEAR

T128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	27	30.7	27	30.7
REVIEWED THEN EX	61	69.3	88	100.0

WHY NOT OTL

W128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
TAUGHT PRIOR YEA	12	46.2	12	46.2
BE TAUGHT LATER	10	38.5	22	84.6
NOT IN CURRICULU	1	3.8	23	88.5
ALL OTHER REASON	3	11.5	26	100.0

APP129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	39	43.3	39	43.3
6% - 40%	26	28.9	65	72.2
41% - 60%	14	15.6	79	87.8
61% - 94%	10	11.1	89	98.9
VIRTUALLY ALL	1	1.1	90	100.0

TAUGHT THIS YEAR

T129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
TAUGHT AS NEW CO	54	62.1	54	62.1
REVIEWED THEN EX	33	37.9	87	100.0

WHY NOT OTL

W129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	46	.	.	.
TAUGHT PRIOR YEA	13	24.5	13	24.5
BE TAUGHT LATER	30	56.6	43	81.1
NOT IN CURRICULU	6	11.3	49	92.5
ALL OTHER REASON	4	7.5	53	100.0

APP130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	14	15.6	14	15.6
6% - 40%	20	22.2	34	37.8
41% - 60%	22	24.4	56	62.2
61% - 94%	20	22.2	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	50	56.2	50	56.2
REVIEWED THEN EX	39	43.8	89	100.0

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WHY NOT OTL

W130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	50	.	.	.
TAUGHT PRIOR YEA	18	36.7	18	36.7
BE TAUGHT LATER	29	59.2	47	95.9
NOT IN CURRICULU	2	4.1	49	100.0

APP131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	29	32.2	29	32.2
6% - 40%	18	20.0	47	52.2
41% - 60%	23	25.6	70	77.8
61% - 94%	14	15.6	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	52	59.1	52	59.1
REVIEWED THEN EX	36	40.9	88	100.0

WHY NOT OTL

W131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
TAUGHT PRIOR YEA	6	11.8	6	11.8
BE TAUGHT LATER	42	82.4	48	94.1
NOT IN CURRICULU	3	5.9	51	100.0

APP132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	11	12.2	11	12.2
6% - 40%	24	26.7	35	38.9
41% - 60%	24	26.7	59	65.6
61% - 94%	17	18.9	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	26	29.2	26	29.2
REVIEWED THEN EX	63	70.8	89	100.0

WHY NOT OTL

W132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
TAUGHT PRIOR YEA	9	37.5	9	37.5
BE TAUGHT LATER	5	20.8	14	58.3
NOT IN CURRICULU	4	16.7	18	75.0
ALL OTHER REASON	6	25.0	24	100.0

APP133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	18	20.0	20	22.2
41% - 60%	26	28.9	46	51.1
61% - 94%	33	36.7	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

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TAUGHT THIS YEAR

T133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	17	19.1	17	19.1
REVIEWED THEN EX	72	80.9	89	100.0

WHY NOT OTL

W133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
TAUGHT PRIOR YEA	12	70.6	12	70.6
BE TAUGHT LATER	1	5.9	13	76.5
NOT IN CURRICULU	1	5.9	14	82.4
ALL OTHER REASON	3	17.6	17	100.0

APP134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	10	11.1	10	11.1
6% - 40%	28	31.1	38	42.2
41% - 60%	33	36.7	71	78.9
61% - 94%	17	18.9	88	97.8
VIRTUALLY ALL	2	2.2	90	100.0

TAUGHT THIS YEAR

T134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	43	48.3	43	48.3
REVIEWED THEN EX	46	51.7	89	100.0

WHY NOT OTL

W134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	59	.	.	.
TAUGHT PRIOR YEA	10	25.0	10	25.0
BE TAUGHT LATER	13	32.5	23	57.5
NOT IN CURRICULU	6	15.0	29	72.5
ALL OTHER REASON	11	27.5	40	100.0

APP135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	4	4.5	4	4.5
6% - 40%	18	20.2	22	24.7
41% - 60%	32	36.0	54	60.7
61% - 94%	16	18.0	70	78.7
VIRTUALLY ALL	19	21.3	89	100.0

TAUGHT THIS YEAR

T135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	23	26.1	23	26.1
REVIEWED THEN EX	65	73.9	88	100.0

WHY NOT OTL

W135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
TAUGHT PRIOR YEA	5	23.8	5	23.8
BE TAUGHT LATER	12	57.1	17	81.0
ALL OTHER REASON	4	19.0	21	100.0

APP136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	18	20.0	21	23.3
41% - 60%	33	36.7	54	60.0
61% - 94%	21	23.3	75	83.3
VIRTUALLY ALL	15	16.7	90	100.0

TAUGHT THIS YEAR

T136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	8	9.0	8	9.0
REVIEWED THEN EX	81	91.0	89	100.0

WHY NOT OTL

W136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
TAUGHT PRIOR YEA	3	42.9	3	42.9
BE TAUGHT LATER	3	42.9	6	85.7
ALL OTHER REASON	1	14.3	7	100.0

APP137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	11	12.4	11	12.4
6% - 40%	23	25.8	34	38.2
41% - 60%	37	41.6	71	79.8
61% - 94%	14	15.7	85	95.5
VIRTUALLY ALL	4	4.5	89	100.0

TAUGHT THIS YEAR

T137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	17	19.1	17	19.1
REVIEWED THEN EX	72	80.9	89	100.0

WHY NOT OTL

W137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	7	38.9	7	38.9
BE TAUGHT LATER	2	11.1	9	50.0
NOT IN CURRICULU	4	22.2	13	72.2
ALL OTHER REASON	5	27.8	18	100.0

APP138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	13	14.4	13	14.4
6% - 40%	16	17.8	29	32.2
41% - 60%	35	38.9	64	71.1
61% - 94%	15	16.7	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

TAUGHT THIS YEAR

T138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	39	43.8	39	43.8
REVIEWED THEN EX	50	56.2	89	100.0

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WHY NOT OTL

W138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	60	.	.	.
TAUGHT PRIOR YEA	13	33.3	13	33.3
BE TAUGHT LATER	1	2.6	14	35.9
NOT IN CURRICULU	11	28.2	25	64.1
ALL OTHER REASON	14	35.9	39	100.0

APP139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	7	7.9	7	7.9
6% - 40%	21	23.6	28	31.5
41% - 60%	32	36.0	60	67.4
61% - 94%	19	21.3	79	88.8
VIRTUALLY ALL	10	11.2	89	100.0

TAUGHT THIS YEAR

T139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
TAUGHT AS NEW CO	15	17.2	15	17.2
REVIEWED THEN EX	72	82.8	87	100.0

WHY NOT OTL

W139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
TAUGHT PRIOR YEA	10	66.7	10	66.7
BE TAUGHT LATER	1	6.7	11	73.3
NOT IN CURRICULU	3	20.0	14	93.3
ALL OTHER REASON	1	6.7	15	100.0

APP140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	14	15.6	16	17.8
41% - 60%	26	28.9	42	46.7
61% - 94%	28	31.1	70	77.8
VIRTUALLY ALL	20	22.2	90	100.0

TAUGHT THIS YEAR

T140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	17	19.1	17	19.1
REVIEWED THEN EX	72	80.9	89	100.0

WHY NOT OTL

W140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
TAUGHT PRIOR YEA	15	93.8	15	93.8
ALL OTHER REASON	1	6.3	16	100.0

APP141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	9	10.0	9	10.0
6% - 40%	34	37.8	43	47.8
41% - 60%	31	34.4	74	82.2
61% - 94%	14	15.6	88	97.8
VIRTUALLY ALL	2	2.2	90	100.0

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TAUGHT THIS YEAR

T141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	19	21.6	19	21.6
REVIEWED THEN EX	69	78.4	88	100.0

WHY NOT OTL

W141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	8	44.4	8	44.4
BE TAUGHT LATER	2	11.1	10	55.6
NOT IN CURRICULU	2	11.1	12	66.7
ALL OTHER REASON	6	33.3	18	100.0

APP142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	26	28.9	26	28.9
6% - 40%	21	23.3	47	52.2
41% - 60%	21	23.3	68	75.6
61% - 94%	17	18.9	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	39	43.8	39	43.8
REVIEWED THEN EX	50	56.2	89	100.0

WHY NOT OTL

W142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	59	.	.	.
TAUGHT PRIOR YEA	5	12.5	5	12.5
BE TAUGHT LATER	21	52.5	26	65.0
NOT IN CURRICULU	8	20.0	34	85.0
ALL OTHER REASON	6	15.0	40	100.0

APP143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	9	10.0	9	10.0
6% - 40%	17	18.9	26	28.9
41% - 60%	36	40.0	62	68.9
61% - 94%	19	21.1	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	20	22.5	20	22.5
REVIEWED THEN EX	69	77.5	89	100.0

WHY NOT OTL

W143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
TAUGHT PRIOR YEA	11	57.9	11	57.9
BE TAUGHT LATER	1	5.3	12	63.2
NOT IN CURRICULU	3	15.8	15	78.9
ALL OTHER REASON	4	21.1	19	100.0

APP144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	34	37.8	34	37.8
6% - 40%	32	35.6	66	73.3
41% - 60%	15	16.7	81	90.0
61% - 94%	8	8.9	89	98.9
VIRTUALLY ALL	1	1.1	90	100.0

TAUGHT THIS YEAR

T144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	58	65.2	58	65.2
REVIEWED THEN EX	31	34.8	89	100.0

WHY NOT OTL

W144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	41	.	.	.
TAUGHT PRIOR YEA	16	27.6	16	27.6
BE TAUGHT LATER	5	8.6	21	36.2
NOT IN CURRICULU	20	34.5	41	70.7
ALL OTHER REASON	17	29.3	58	100.0

APP145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	51	56.7	51	56.7
6% - 40%	17	18.9	68	75.6
41% - 60%	11	12.2	79	87.8
61% - 94%	8	8.9	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	59	66.3	59	66.3
REVIEWED THEN EX	30	33.7	89	100.0

WHY NOT OTL

W145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	40	.	.	.
TAUGHT PRIOR YEA	6	10.2	6	10.2
BE TAUGHT LATER	36	61.0	42	71.2
NOT IN CURRICULU	14	23.7	56	94.9
ALL OTHER REASON	3	5.1	59	100.0

APP146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	16	17.8	18	20.0
41% - 60%	20	22.2	38	42.2
61% - 94%	28	31.1	66	73.3
VIRTUALLY ALL	24	26.7	90	100.0

TAUGHT THIS YEAR

T146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	41	46.1	41	46.1
REVIEWED THEN EX	48	53.9	89	100.0

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WHY NOT OTL

W146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	59	.	.	.
TAUGHT PRIOR YEA	23	57.5	23	57.5
BE TAUGHT LATER	4	10.0	27	67.5
NOT IN CURRICULU	2	5.0	29	72.5
ALL OTHER REASON	11	27.5	40	100.0

APP148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	11	12.2	11	12.2
6% - 40%	21	23.3	32	35.6
41% - 60%	29	32.2	61	67.8
61% - 94%	18	20.0	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

TAUGHT THIS YEAR

T148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	15	16.9	15	16.9
REVIEWED THEN EX	74	83.1	89	100.0

WHY NOT OTL

W148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
TAUGHT PRIOR YEA	8	57.1	8	57.1
NOT IN CURRICULU	2	14.3	10	71.4
ALL OTHER REASON	4	28.6	14	100.0

APP149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	24	26.7	28	31.1
41% - 60%	31	34.4	59	65.6
61% - 94%	23	25.6	82	91.1
VIRTUALLY ALL	8	8.9	90	100.0

TAUGHT THIS YEAR

T149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	9	10.1	9	10.1
REVIEWED THEN EX	80	89.9	89	100.0

WHY NOT OTL

W149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
TAUGHT PRIOR YEA	4	44.4	4	44.4
BE TAUGHT LATER	1	11.1	5	55.6
NOT IN CURRICULU	3	33.3	8	88.9
ALL OTHER REASON	1	11.1	9	100.0

APP151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	7	7.9	7	7.9
6% - 40%	31	34.8	38	42.7
41% - 60%	37	41.6	75	84.3
61% - 94%	11	12.4	86	96.6
VIRTUALLY ALL	3	3.4	89	100.0

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TAUGHT THIS YEAR

T151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	9	10.2	9	10.2
REVIEWED THEN EX	79	89.8	88	100.0

WHY NOT OTL

W151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90	.	.	.
TAUGHT PRIOR YEA	3	33.3	3	33.3
BE TAUGHT LATER	4	44.4	7	77.8
NOT IN CURRICULU	1	11.1	8	88.9
ALL OTHER REASON	1	11.1	9	100.0

APP152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	19	21.1	19	21.1
6% - 40%	22	24.4	41	45.6
41% - 60%	25	27.8	66	73.3
61% - 94%	13	14.4	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

TAUGHT THIS YEAR

T152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	40	44.9	40	44.9
REVIEWED THEN EX	49	55.1	89	100.0

WHY NOT OTL

W152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	59	.	.	.
TAUGHT PRIOR YEA	4	10.0	4	10.0
BE TAUGHT LATER	17	42.5	21	52.5
NOT IN CURRICULU	12	30.0	33	82.5
ALL OTHER REASON	7	17.5	40	100.0

APP155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	10	11.1	10	11.1
6% - 40%	27	30.0	37	41.1
41% - 60%	33	36.7	70	77.8
61% - 94%	14	15.6	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	32	36.0	32	36.0
REVIEWED THEN EX	57	64.0	89	100.0

WHY NOT OTL

W155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	67	.	.	.
TAUGHT PRIOR YEA	10	31.3	10	31.3
BE TAUGHT LATER	10	31.3	20	62.5
NOT IN CURRICULU	4	12.5	24	75.0
ALL OTHER REASON	8	25.0	32	100.0

APP156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	26	28.9	26	28.9
6% - 40%	25	27.8	51	56.7
41% - 60%	20	22.2	71	78.9
61% - 94%	15	16.7	86	95.6
VIRTUALLY ALL	4	4.4	90	100.0

TAUGHT THIS YEAR

T156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	12	.	.	.
TAUGHT AS NEW CO	45	51.7	45	51.7
REVIEWED THEN EX	42	48.3	87	100.0

WHY NOT OTL

W156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	55	.	.	.
TAUGHT PRIOR YEA	5	11.4	5	11.4
BE TAUGHT LATER	36	81.8	41	93.2
NOT IN CURRICULU	2	4.5	43	97.7
ALL OTHER REASON	1	2.3	44	100.0

APP158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	23	25.6	23	25.6
6% - 40%	16	17.8	39	43.3
41% - 60%	31	34.4	70	77.8
61% - 94%	11	12.2	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	57	64.0	57	64.0
REVIEWED THEN EX	32	36.0	89	100.0

WHY NOT OTL

W158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	42	.	.	.
TAUGHT PRIOR YEA	3	5.3	3	5.3
BE TAUGHT LATER	11	19.3	14	24.6
NOT IN CURRICULU	19	33.3	33	57.9
ALL OTHER REASON	24	42.1	57	100.0

APP159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	6	6.7	6	6.7
6% - 40%	35	38.9	41	45.6
41% - 60%	21	23.3	62	68.9
61% - 94%	16	17.8	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

TAUGHT THIS YEAR

T159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	50	56.8	50	56.8
REVIEWED THEN EX	38	43.2	88	100.0

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WHY NOT OTL

W159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
BE TAUGHT LATER	2	3.9	2	3.9
NOT IN CURRICULU	30	58.8	32	62.7
ALL OTHER REASON	19	37.3	51	100.0

APP160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	21	23.6	21	23.6
6% - 40%	31	34.8	52	58.4
41% - 60%	17	19.1	69	77.5
61% - 94%	16	18.0	85	95.5
VIRTUALLY ALL	4	4.5	89	100.0

TAUGHT THIS YEAR

T160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	48	54.5	48	54.5
REVIEWED THEN EX	40	45.5	88	100.0

WHY NOT OTL

W160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	51	.	.	.
TAUGHT PRIOR YEA	8	16.7	8	16.7
BE TAUGHT LATER	35	72.9	43	89.6
NOT IN CURRICULU	2	4.2	45	93.7
ALL OTHER REASON	3	6.3	48	100.0

APP161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	32	35.6	32	35.6
6% - 40%	31	34.4	63	70.0
41% - 60%	14	15.6	77	85.6
61% - 94%	10	11.1	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

TAUGHT THIS YEAR

T161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	47	52.8	47	52.8
REVIEWED THEN EX	42	47.2	89	100.0

WHY NOT OTL

W161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	50	.	.	.
TAUGHT PRIOR YEA	8	16.3	8	16.3
BE TAUGHT LATER	31	63.3	39	79.6
NOT IN CURRICULU	5	10.2	44	89.8
ALL OTHER REASON	5	10.2	49	100.0

APP162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	18	20.0	18	20.0
6% - 40%	16	17.8	34	37.8
41% - 60%	28	31.1	62	68.9
61% - 94%	17	18.9	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

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TAUGHT THIS YEAR

T162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	49	55.1	49	55.1
REVIEWED THEN EX	40	44.9	89	100.0

WHY NOT OTL

W162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	52	.	.	.
TAUGHT PRIOR YEA	15	31.9	15	31.9
BE TAUGHT LATER	26	55.3	41	87.2
NOT IN CURRICULU	4	8.5	45	95.7
ALL OTHER REASON	2	4.3	47	100.0

APP163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	64	71.1	64	71.1
6% - 40%	14	15.6	78	86.7
41% - 60%	10	11.1	88	97.8
VIRTUALLY ALL	2	2.2	90	100.0

TAUGHT THIS YEAR

T163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	80	89.9	80	89.9
REVIEWED THEN EX	9	10.1	89	100.0

WHY NOT OTL

W163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	19	.	.	.
TAUGHT PRIOR YEA	2	2.5	2	2.5
BE TAUGHT LATER	10	12.5	12	15.0
NOT IN CURRICULU	61	76.3	73	91.3
ALL OTHER REASON	7	8.8	80	100.0

APP164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	9	10.0	13	14.4
41% - 60%	20	22.2	33	36.7
61% - 94%	27	30.0	60	66.7
VIRTUALLY ALL	30	33.3	90	100.0

TAUGHT THIS YEAR

T164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	30	34.1	30	34.1
REVIEWED THEN EX	58	65.9	88	100.0

WHY NOT OTL

W164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
TAUGHT PRIOR YEA	16	55.2	16	55.2
BE TAUGHT LATER	1	3.4	17	58.6
NOT IN CURRICULU	2	6.9	19	65.5
ALL OTHER REASON	10	34.5	29	100.0

APP165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	12	13.6	13	14.8
41% - 60%	23	26.1	36	40.9
61% - 94%	37	42.0	73	83.0
VIRTUALLY ALL	15	17.0	88	100.0

TAUGHT THIS YEAR

T165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	11	12.5	11	12.5
REVIEWED THEN EX	77	87.5	88	100.0

WHY NOT OTL

W165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
TAUGHT PRIOR YEA	3	30.0	3	30.0
BE TAUGHT LATER	5	50.0	8	80.0
ALL OTHER REASON	2	20.0	10	100.0

APP166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	20	22.2	25	27.8
41% - 60%	29	32.2	54	60.0
61% - 94%	24	26.7	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

TAUGHT THIS YEAR

T166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	11	12.4	11	12.4
REVIEWED THEN EX	78	87.6	89	100.0

WHY NOT OTL

W166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
TAUGHT PRIOR YEA	1	10.0	1	10.0
BE TAUGHT LATER	7	70.0	8	80.0
NOT IN CURRICULU	2	20.0	10	100.0

APP167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	9	10.1	9	10.1
6% - 40%	27	30.3	36	40.4
41% - 60%	23	25.8	59	66.3
61% - 94%	21	23.6	80	89.9
VIRTUALLY ALL	9	10.1	89	100.0

TAUGHT THIS YEAR

T167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	35	39.8	35	39.8
REVIEWED THEN EX	53	60.2	88	100.0

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WHY NOT OTL

W167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
TAUGHT PRIOR YEA	7	20.0	7	20.0
BE TAUGHT LATER	10	28.6	17	48.6
NOT IN CURRICULU	8	22.9	25	71.4
ALL OTHER REASON	10	28.6	35	100.0

APP168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	7	7.9	7	7.9
6% - 40%	28	31.5	35	39.3
41% - 60%	22	24.7	57	64.0
61% - 94%	19	21.3	76	85.4
VIRTUALLY ALL	13	14.6	89	100.0

TAUGHT THIS YEAR

T168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
TAUGHT AS NEW CO	19	22.1	19	22.1
REVIEWED THEN EX	67	77.9	86	100.0

WHY NOT OTL

W168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
TAUGHT PRIOR YEA	3	16.7	3	16.7
BE TAUGHT LATER	4	22.2	7	38.9
NOT IN CURRICULU	4	22.2	11	61.1
ALL OTHER REASON	7	38.9	18	100.0

APP169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	38	42.2	38	42.2
6% - 40%	25	27.8	63	70.0
41% - 60%	13	14.4	76	84.4
61% - 94%	8	8.9	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	68	76.4	68	76.4
REVIEWED THEN EX	21	23.6	89	100.0

WHY NOT OTL

W169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	32	.	.	.
TAUGHT PRIOR YEA	14	20.9	14	20.9
BE TAUGHT LATER	40	59.7	54	80.6
NOT IN CURRICULU	8	11.9	62	92.5
ALL OTHER REASON	5	7.5	67	100.0

APP170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	78	86.7	78	86.7
6% - 40%	7	7.8	85	94.4
41% - 60%	2	2.2	87	96.7
61% - 94%	1	1.1	88	97.8
VIRTUALLY ALL	2	2.2	90	100.0

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TAUGHT THIS YEAR

T170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	84	94.4	84	94.4
REVIEWED THEN EX	5	5.6	89	100.0

WHY NOT OTL

W170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	15	.	.	.
TAUGHT PRIOR YEA	2	2.4	2	2.4
BE TAUGHT LATER	5	6.0	7	8.3
NOT IN CURRICULU	73	86.9	80	95.2
ALL OTHER REASON	4	4.8	84	100.0

APP171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	64	71.1	64	71.1
6% - 40%	13	14.4	77	85.6
41% - 60%	4	4.4	81	90.0
61% - 94%	2	2.2	83	92.2
VIRTUALLY ALL	7	7.8	90	100.0

TAUGHT THIS YEAR

T171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	77	87.5	77	87.5
REVIEWED THEN EX	11	12.5	88	100.0

WHY NOT OTL

W171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	22	.	.	.
TAUGHT PRIOR YEA	2	2.6	2	2.6
BE TAUGHT LATER	8	10.4	10	13.0
NOT IN CURRICULU	59	76.6	69	89.6
ALL OTHER REASON	8	10.4	77	100.0

APP172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	37	41.1	37	41.1
6% - 40%	26	28.9	63	70.0
41% - 60%	18	20.0	81	90.0
61% - 94%	4	4.4	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	52	58.4	52	58.4
REVIEWED THEN EX	37	41.6	89	100.0

WHY NOT OTL

W172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	48	.	.	.
TAUGHT PRIOR YEA	12	23.5	12	23.5
BE TAUGHT LATER	6	11.8	18	35.3
NOT IN CURRICULU	28	54.9	46	90.2
ALL OTHER REASON	5	9.8	51	100.0

APP173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
VIRTUALLY NONE	67	75.3	67	75.3
6% - 40%	14	15.7	81	91.0
41% - 60%	3	3.4	84	94.4
61% - 94%	2	2.2	86	96.6
VIRTUALLY ALL	3	3.4	89	100.0

TAUGHT THIS YEAR

T173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	84	94.4	84	94.4
REVIEWED THEN EX	5	5.6	89	100.0

WHY NOT OTL

W173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	16	.	.	.
TAUGHT PRIOR YEA	4	4.8	4	4.8
BE TAUGHT LATER	11	13.3	15	18.1
NOT IN CURRICULU	59	71.1	74	89.2
ALL OTHER REASON	9	10.8	83	100.0

APP174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	31	34.4	31	34.4
6% - 40%	28	31.1	59	65.6
41% - 60%	20	22.2	79	87.8
61% - 94%	6	6.7	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	74	83.1	74	83.1
REVIEWED THEN EX	15	16.9	89	100.0

WHY NOT OTL

W174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	26	.	.	.
BE TAUGHT LATER	8	11.0	8	11.0
NOT IN CURRICULU	47	64.4	55	75.3
ALL OTHER REASON	18	24.7	73	100.0

APP175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	32	36.0	37	41.6
41% - 60%	33	37.1	70	78.7
61% - 94%	13	14.6	83	93.3
VIRTUALLY ALL	6	6.7	89	100.0

TAUGHT THIS YEAR

T175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	12	.	.	.
TAUGHT AS NEW CO	23	26.4	23	26.4
REVIEWED THEN EX	64	73.6	87	100.0

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WHY NOT OTL

W175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
TAUGHT PRIOR YEA	10	43.5	10	43.5
BE TAUGHT LATER	1	4.3	11	47.8
NOT IN CURRICULU	4	17.4	15	65.2
ALL OTHER REASON	8	34.8	23	100.0

APP176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
INAPPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	44	48.9	44	48.9
6% - 40%	25	27.8	69	76.7
41% - 60%	8	8.9	77	85.6
61% - 94%	8	8.9	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	63	71.6	63	71.6
REVIEWED THEN EX	25	28.4	88	100.0

WHY NOT OTL

W176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	37	.	.	.
TAUGHT PRIOR YEA	1	1.6	1	1.6
BE TAUGHT LATER	19	30.6	20	32.3
NOT IN CURRICULU	26	41.9	46	74.2
ALL OTHER REASON	16	25.8	62	100.0

APP177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	15	16.7	18	20.0
41% - 60%	38	42.2	56	62.2
61% - 94%	23	25.6	79	87.8
VIRTUALLY ALL	11	12.2	90	100.0

TAUGHT THIS YEAR

T177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	4	4.5	4	4.5
REVIEWED THEN EX	85	95.5	89	100.0

WHY NOT OTL

W177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
TAUGHT PRIOR YEA	3	100.0	3	100.0

APP178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	16	17.8	18	20.0
41% - 60%	27	30.0	45	50.0
61% - 94%	33	36.7	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

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TAUGHT THIS YEAR

T178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	4	4.5	4	4.5
REVIEWED THEN EX	85	95.5	89	100.0

WHY NOT OTL

W178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
TAUGHT PRIOR YEA	2	66.7	2	66.7
ALL OTHER REASON	1	33.3	3	100.0

APP179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	24	26.7	27	30.0
41% - 60%	23	25.6	50	55.6
61% - 94%	28	31.1	78	86.7
VIRTUALLY ALL	12	13.3	90	100.0

TAUGHT THIS YEAR

T179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	5	5.6	5	5.6
REVIEWED THEN EX	84	94.4	89	100.0

WHY NOT OTL

W179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
TAUGHT PRIOR YEA	4	80.0	4	80.0
ALL OTHER REASON	1	20.0	5	100.0

APP180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	22	24.4	26	28.9
41% - 60%	32	35.6	58	64.4
61% - 94%	22	24.4	80	88.9
VIRTUALLY ALL	10	11.1	90	100.0

TAUGHT THIS YEAR

T180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	6	6.8	6	6.8
REVIEWED THEN EX	82	93.2	88	100.0

WHY NOT OTL

W180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
TAUGHT PRIOR YEA	4	80.0	4	80.0
ALL OTHER REASON	1	20.0	5	100.0

APP181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	30	33.3	35	38.9
41% - 60%	31	34.4	66	73.3
61% - 94%	18	20.0	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	15	17.0	15	17.0
REVIEWED THEN EX	73	83.0	88	100.0

WHY NOT OTL

W181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
TAUGHT PRIOR YEA	10	62.5	10	62.5
BE TAUGHT LATER	1	6.3	11	68.8
ALL OTHER REASON	5	31.3	16	100.0

APP182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	15	16.7	17	18.9
41% - 60%	27	30.0	44	48.9
61% - 94%	30	33.3	74	82.2
VIRTUALLY ALL	16	17.8	90	100.0

TAUGHT THIS YEAR

T182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	77	86.5	89	100.0

WHY NOT OTL

W182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
TAUGHT PRIOR YEA	8	72.7	8	72.7
BE TAUGHT LATER	1	9.1	9	81.8
NOT IN CURRICULU	1	9.1	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	7	7.8	10	11.1
41% - 60%	9	10.0	19	21.1
61% - 94%	33	36.7	52	57.8
VIRTUALLY ALL	38	42.2	90	100.0

TAUGHT THIS YEAR

T183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	18	20.2	18	20.2
REVIEWED THEN EX	71	79.8	89	100.0

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WHY NOT OTL

W183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
TAUGHT PRIOR YEA	9	52.9	9	52.9
BE TAUGHT LATER	7	41.2	16	94.1
NOT IN CURRICULU	1	5.9	17	100.0

APP184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	8	8.9	8	8.9
6% - 40%	27	30.0	35	38.9
41% - 60%	25	27.8	60	66.7
61% - 94%	16	17.8	76	84.4
VIRTUALLY ALL	14	15.6	90	100.0

TAUGHT THIS YEAR

T184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	22	24.7	22	24.7
REVIEWED THEN EX	67	75.3	89	100.0

WHY NOT OTL

W184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
TAUGHT PRIOR YEA	13	59.1	13	59.1
BE TAUGHT LATER	2	9.1	15	68.2
NOT IN CURRICULU	1	4.5	16	72.7
ALL OTHER REASON	6	27.3	22	100.0

APP185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	7	7.8	7	7.8
6% - 40%	16	17.8	23	25.6
41% - 60%	40	44.4	63	70.0
61% - 94%	21	23.3	84	93.3
VIRTUALLY ALL	6	6.7	90	100.0

TAUGHT THIS YEAR

T185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	17	19.1	17	19.1
REVIEWED THEN EX	72	80.9	89	100.0

WHY NOT OTL

W185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
TAUGHT PRIOR YEA	2	12.5	2	12.5
BE TAUGHT LATER	10	62.5	12	75.0
ALL OTHER REASON	4	25.0	16	100.0

APP186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	4	4.4	4	4.4
6% - 40%	3	3.3	7	7.8
41% - 60%	9	10.0	16	17.8
61% - 94%	27	30.0	43	47.8
VIRTUALLY ALL	47	52.2	90	100.0

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TAUGHT THIS YEAR

T186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	15	16.9	15	16.9
REVIEWED THEN EX	74	83.1	89	100.0

WHY NOT OTL

W186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	85	.	.	.
TAUGHT PRIOR YEA	12	85.7	12	85.7
NOT IN CURRICULU	1	7.1	13	92.9
ALL OTHER REASON	1	7.1	14	100.0

APP187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	18	20.0	20	22.2
41% - 60%	26	28.9	46	51.1
61% - 94%	23	25.6	69	76.7
VIRTUALLY ALL	21	23.3	90	100.0

TAUGHT THIS YEAR

T187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	77	86.5	89	100.0

WHY NOT OTL

W187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	88	.	.	.
TAUGHT PRIOR YEA	9	81.8	9	81.8
BE TAUGHT LATER	1	9.1	10	90.9
ALL OTHER REASON	1	9.1	11	100.0

APP188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	3	3.3	3	3.3
6% - 40%	7	7.8	10	11.1
41% - 60%	15	16.7	25	27.8
61% - 94%	31	34.4	56	62.2
VIRTUALLY ALL	34	37.8	90	100.0

TAUGHT THIS YEAR

T188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	20	22.5	20	22.5
REVIEWED THEN EX	69	77.5	89	100.0

WHY NOT OTL

W188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	80	.	.	.
TAUGHT PRIOR YEA	16	84.2	16	84.2
BE TAUGHT LATER	3	15.8	19	100.0

APP190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

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ESTIMATED PERCENT CORRECT

E190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	5	5.6	5	5.6
6% - 40%	10	11.1	15	16.7
41% - 60%	31	34.4	46	51.1
61% - 94%	26	28.9	72	80.0
VIRTUALLY ALL	18	20.0	90	100.0

TAUGHT THIS YEAR

T190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	10	11.2	10	11.2
REVIEWED THEN EX	79	88.8	89	100.0

WHY NOT OTL

W190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90	.	.	.
TAUGHT PRIOR YEA	5	55.6	5	55.6
BE TAUGHT LATER	1	11.1	6	66.7
NOT IN CURRICULU	1	11.1	7	77.8
ALL OTHER REASON	2	22.2	9	100.0

APP191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	14	15.6	14	15.6
6% - 40%	32	35.6	46	51.1
41% - 60%	26	28.9	72	80.0
61% - 94%	18	20.0	90	100.0

TAUGHT THIS YEAR

T191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	11	.	.	.
TAUGHT AS NEW CO	9	10.2	9	10.2
REVIEWED THEN EX	79	89.8	88	100.0

WHY NOT OTL

W191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	91	.	.	.
TAUGHT PRIOR YEA	4	50.0	4	50.0
BE TAUGHT LATER	1	12.5	5	62.5
ALL OTHER REASON	3	37.5	8	100.0

APP192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
VIRTUALLY NONE	2	2.2	2	2.2
6% - 40%	21	23.3	23	25.6
41% - 60%	27	30.0	50	55.6
61% - 94%	31	34.4	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	8	9.0	8	9.0
REVIEWED THEN EX	81	91.0	89	100.0

WHY NOT OTL

W192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92	.	.	.
TAUGHT PRIOR YEA	5	71.4	5	71.4
BE TAUGHT LATER	2	28.6	7	100.0

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APP193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	33	36.7	33	36.7
6% - 40%	24	26.7	57	63.3
41% - 60%	24	26.7	81	90.0
61% - 94%	5	5.6	86	95.6
VIRTUALLY ALL	4	4.4	90	100.0

TAUGHT THIS YEAR

T193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	44	49.4	44	49.4
REVIEWED THEN EX	45	50.6	89	100.0

WHY NOT OTL

W193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
TAUGHT PRIOR YEA	6	13.6	6	13.6
BE TAUGHT LATER	28	63.6	34	77.3
NOT IN CURRICULU	5	11.4	39	88.6
ALL OTHER REASON	5	11.4	44	100.0

APP194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	6	6.7	6	6.7
6% - 40%	21	23.3	27	30.0
41% - 60%	36	40.0	63	70.0
61% - 94%	18	20.0	81	90.0
VIRTUALLY ALL	9	10.0	90	100.0

TAUGHT THIS YEAR

T194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	24	27.0	24	27.0
REVIEWED THEN EX	65	73.0	89	100.0

WHY NOT OTL

W194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
TAUGHT PRIOR YEA	6	25.0	6	25.0
BE TAUGHT LATER	7	29.2	13	54.2
NOT IN CURRICULU	5	20.8	18	75.0
ALL OTHER REASON	6	25.0	24	100.0

APP195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VIRTUALLY NONE	7	7.9	7	7.9
6% - 40%	27	30.3	34	38.2
41% - 60%	32	36.0	66	74.2
61% - 94%	18	20.2	84	94.4
VIRTUALLY ALL	5	5.6	89	100.0

TAUGHT THIS YEAR

T195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
TAUGHT AS NEW CO	7	8.0	7	8.0
REVIEWED THEN EX	81	92.0	88	100.0

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APPROPRIATENESS AND OPPORTUNITY-TO-LEARN

WHY NOT OTL

W195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
TAUGHT PRIOR YEA	2	33.3	2	33.3
BE TAUGHT LATER	1	16.7	3	50.0
ALL OTHER REASON	3	50.0	6	100.0

APP196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	1	1.1	1	1.1
6% - 40%	13	14.4	14	15.6
41% - 60%	31	34.4	45	50.0
61% - 94%	29	32.2	74	82.2
VIRTUALLY ALL	16	17.8	90	100.0

TAUGHT THIS YEAR

T196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	5	5.6	5	5.6
REVIEWED THEN EX	84	94.4	89	100.0

WHY NOT OTL

W196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
TAUGHT PRIOR YEA	2	50.0	2	50.0
NOT IN CURRICULU	1	25.0	3	75.0
ALL OTHER REASON	1	25.0	4	100.0

APP197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	46	51.1	46	51.1
6% - 40%	18	20.0	64	71.1
41% - 60%	16	17.8	80	88.9
61% - 94%	8	8.9	88	97.8
VIRTUALLY ALL	2	2.2	90	100.0

TAUGHT THIS YEAR

T197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	58	65.2	58	65.2
REVIEWED THEN EX	31	34.8	89	100.0

WHY NOT OTL

W197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	42	.	.	.
TAUGHT PRIOR YEA	5	8.8	5	8.8
BE TAUGHT LATER	46	80.7	51	89.5
NOT IN CURRICULU	2	3.5	53	93.0
ALL OTHER REASON	4	7.0	57	100.0

APP198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	13	14.4	13	14.4
6% - 40%	36	40.0	49	54.4
41% - 60%	30	33.3	79	87.8
61% - 94%	8	8.9	87	96.7
VIRTUALLY ALL	3	3.3	90	100.0

THAILAND -- POPULATION A
APPROPRIATENESS AND OPPORTUNITY-TO-LEARN

TAUGHT THIS YEAR

T198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	50	56.2	50	56.2
REVIEWED THEN EX	39	43.8	89	100.0

WHY NOT OTL

W198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
TAUGHT PRIOR YEA	1	2.0	1	2.0
BE TAUGHT LATER	4	7.8	5	9.8
NOT IN CURRICULU	18	35.3	23	45.1
ALL OTHER REASON	28	54.9	51	100.0

APP199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
APPROPRIATE	99	100.0	99	100.0

ESTIMATED PERCENT CORRECT

E199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VIRTUALLY NONE	28	31.1	28	31.1
6% - 40%	29	32.2	57	63.3
41% - 60%	23	25.6	80	88.9
61% - 94%	5	5.6	85	94.4
VIRTUALLY ALL	5	5.6	90	100.0

TAUGHT THIS YEAR

T199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	58	65.2	58	65.2
REVIEWED THEN EX	31	34.8	89	100.0

WHY NOT OTL

W199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	41	.	.	.
TAUGHT PRIOR YEA	15	25.9	15	25.9
BE TAUGHT LATER	9	15.5	24	41.4
NOT IN CURRICULU	22	37.9	46	79.3
ALL OTHER REASON	12	20.7	58	100.0

Class level Student attitudes

THAILAND -- POPULATION A
CLASS-LEVEL ATTITUDES -- BEGINNING OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN	STANDARD DEVIATION
PXWPEA	A-EASY..SOLVING WORD PROBLEMS	99	0	0.2	0.1
PXWPED	D-EASY..SOLVING WORD PROBLEMS	99	0	0.3	0.1
PXWPIA	A-IMP..SOLVING WORD PROBLEMS	99	0	0.9	0.1
PXWPID	D-IMP..SOLVING WORD PROBLEMS	99	0	0.0	0.0
PXWPLA	A-LIKE..SOLVING WORD PROBLEMS	99	0	0.6	0.1
PXWPLD	D-LIKE..SOLVING WORD PROBLEMS	99	0	0.2	0.1
PXMEMEA	A-EASY..MEMORIZING RULES FORMULAS	99	0	0.3	0.1
PXMEMED	D-EASY..MEMORIZING RULES FORMULAS	99	0	0.4	0.1
PXMEMIA	A-IMP..MEMORIZING RULES FORMULAS	99	0	1.0	0.0
PXMEMID	D-IMP..MEMORIZING RULES FORMULAS	99	0	0.0	0.0
PXMEMLA	A-LIKE..MEMORIZING RULES FORMULAS	99	0	0.6	0.1
PXMEMLD	D-LIKE..MEMORIZING RULES FORMULAS	99	0	0.1	0.1
PXESTEA	A-EASY..ESTIMATING ANSWERS	99	0	0.2	0.1
PXESTED	D-EASY..ESTIMATING ANSWERS	99	0	0.3	0.1
PXESTIA	A-IMP..ESTIMATING ANSWERS	99	0	0.6	0.1
PXESTID	D-IMP..ESTIMATING ANSWERS	99	0	0.2	0.1
PXESTLA	A-LIKE..ESTIMATING ANSWERS	99	0	0.4	0.1
PXESTLD	D-LIKE..ESTIMATING ANSWERS	99	0	0.3	0.1
PXCHKEA	A-EASY..CHECKING AN ANSWER	99	0	0.5	0.1
PXCHKED	D-EASY..CHECKING AN ANSWER	99	0	0.2	0.1
PXCHKIA	A-IMPORTANT..CHECKING AN ANSWER	99	0	0.9	0.1
PXCHKID	D-IMPORTANT..CHECKING AN ANSWER	99	0	0.1	0.0
PXCHKLA	A-LIKE..CHECKING AN ANSWER	99	0	0.6	0.1
PXCHKLD	D-LIKE..CHECKING AN ANSWER	99	0	0.2	0.1

THAILAND -- POPULATION A
CLASS-LEVEL ATTITUDES -- END OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN	STANDARD DEVIATION
PYCHKEA	33:A-EASY..CHECKING AN ANSWER	99	0	0.4	0.1
PYCHKED	33:D-EASY..CHECKING AN ANSWER	99	0	0.3	0.1
PYCHKIA	33:A-IMPORTANT..CHECKING AN ANSWER	99	0	0.9	0.1
PYCHKID	33:D-IMPORTANT..CHECKING AN ANSWER	99	0	0.0	0.0
PYCHKLA	33:A-LIKE..CHECKING AN ANSWER	99	0	0.6	0.1
PYCHKLD	33:D-LIKE..CHECKING AN ANSWER	99	0	0.2	0.1
PYMEMEA	17:A-EASY..MEMORIZING RULES FORMULAS	99	0	0.3	0.1
PYMEMED	17:D-EASY..MEMORIZING RULES FORMULAS	99	0	0.5	0.1
PYMEMIA	17:A-IMP..MEMORIZING RULES FORMULAS	99	0	1.0	0.0
PYMEMID	17:D-IMP..MEMORIZING RULES FORMULAS	99	0	0.0	0.0
PYMEMLA	17:A-LIKE..MEMORIZING RULES FORMULAS	99	0	0.6	0.1
PYMEMLD	17:D-LIKE..MEMORIZING RULES FORMULAS	99	0	0.2	0.1
PYCHRTEA	18:A-EASY..USING CHARTS GRAPHS	99	0	0.7	0.1
PYCHRTED	18:D-EASY..USING CHARTS GRAPHS	99	0	0.1	0.1
PYCHRTIA	18:A-IMPORT..USING CHARTS GRAPHS	99	0	0.7	0.1
PYCHRTID	18:D-IMPORT..USING CHARTS GRAPHS	99	0	0.2	0.1
PYCHRTLA	18:A-LIKE..USING CHARTS GRAPHS	99	0	0.7	0.1
PYCHRTLD	18:D-LIKE..USING CHARTS GRAPHS	99	0	0.2	0.1
PYWPEA	19:A-EASY..SOLVING WORD PROBLEMS	99	0	0.2	0.1
PYWPED	19:D-EASY..SOLVING WORD PROBLEMS	99	0	0.6	0.1
PYWPIA	19:A-IMP..SOLVING WORD PROBLEMS	99	0	0.9	0.1
PYWPID	19:D-IMP..SOLVING WORD PROBLEMS	99	0	0.0	0.0
PYWPLA	19:A-LIKE..SOLVING WORD PROBLEMS	99	0	0.4	0.1
PYWPLD	19:D-LIKE..SOLVING WORD PROBLEMS	99	0	0.3	0.1
PYEQUAEA	2:A-EASY..SOLVING EQUATIONS	99	0	0.4	0.1
PYEQUAED	2:D-EASY..SOLVING EQUATIONS	99	0	0.4	0.1
PYEQUAIA	2:A-IMPORT..SOLVING EQUATIONS	99	0	0.9	0.1
PYEQUAID	2:D-IMPORT..SOLVING EQUATIONS	99	0	0.0	0.0
PYEQUALA	2:A-LIKE..SOLVING EQUATIONS	99	0	0.7	0.1
PYEQUALD	2:D-LIKE..SOLVING EQUATIONS	99	0	0.2	0.1
PYINEQEA	21:A-EASY..SOLVING INEQUALITIES	99	0	0.4	0.1
PYINEQED	21:D-EASY..SOLVING INEQUALITIES	99	0	0.3	0.1
PYINEQIA	21:A-IMP..SOLVING INEQUALITIES	99	0	0.9	0.1
PYINEQID	21:D-IMP..SOLVING INEQUALITIES	99	0	0.1	0.0
PYINEQLA	21:A-LIKE..SOLVING INEQUALITIES	99	0	0.6	0.1
PYINEQLD	21:D-LIKE..SOLVING INEQUALITIES	99	0	0.2	0.1
PYGEOMEA	22:A-EASY..LEARNING GEOMETRIC FIGURES	99	0	0.3	0.1
PYGEOMED	22:D-EASY..LEARNING GEOMETRIC FIGURES	99	0	0.5	0.1
PYGEOMIA	22:A-IMP..LEARNING GEOMETRIC FIGURES	99	0	0.8	0.1
PYGEOMID	22:D-IMP..LEARNING GEOMETRIC FIGURES	99	0	0.1	0.1
PYGEOMLA	22:A-LIKE..LEARNING GEOMETRIC FIGURES	99	0	0.5	0.1
PYGEOMLD	22:D-LIKE..LEARNING GEOMETRIC FIGURES	99	0	0.3	0.1
PYESTEA	23:A-EASY..ESTIMATING ANSWERS	99	0	0.4	0.2
PYESTED	23:D-EASY..ESTIMATING ANSWERS	99	0	0.3	0.1

THAILAND -- POPULATION A
CLASS-LEVEL ATTITUDES -- END OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN	STANDARD DEVIATION
PYESTIA	23:A-IMP..ESTIMATING ANSWERS	99	0	0.6	0.1
PYESTID	23:D-IMP..ESTIMATING ANSWERS	99	0	0.2	0.1
PYESTLA	23:A-LIKE..ESTIMATING ANSWERS	99	0	0.5	0.1
PYESTLD	23:D-LIKE..ESTIMATING ANSWERS	99	0	0.3	0.1
PYRATEA	24:A-EASY..LEARNING RATIO PROPORTION	99	0	0.4	0.1
PYRATED	24:D-EASY..LEARNING RATIO PROPORTION	99	0	0.3	0.1
PYRATIA	24:A-IMP..LEARNING RATIO PROPORTION	99	0	0.9	0.1
PYRATID	24:D-IMP..LEARNING RATIO PROPORTION	99	0	0.0	0.0
PYRATLA	24:A-LIKE..LEARNING RATIO PROPORTION	99	0	0.6	0.1
PYRATLD	24:D-LIKE..LEARNING RATIO PROPORTION	99	0	0.2	0.1
PYDECEA	25:A-EASY..DECIMAL FRACTION PROBLEMS	99	0	0.4	0.1
PYDECED	25:D-EASY..DECIMAL FRACTION PROBLEMS	99	0	0.3	0.1
PYDECIA	25:A-IMPORT..DECIMAL FRACTION PROBLEMS	99	0	0.9	0.1
PYDECID	25:D-IMPORT..DECIMAL FRACTION PROBLEMS	99	0	0.0	0.0
PYDECLA	25:A-LIKE..DECIMAL FRACTION PROBLEMS	99	0	0.6	0.1
PYDECLD	25:D-LIKE..DECIMAL FRACTION PROBLEMS	99	0	0.2	0.1
PYSETSEA	26:A-EASY..WORKING WITH SETS	98	1	0.1	0.1
PYSETSED	26:D-EASY..WORKING WITH SETS	98	1	0.4	0.2
PYSETSIA	26:A-IMP..WORKING WITH SETS	98	1	0.5	0.2
PYSETSID	26:D-IMP..WORKING WITH SETS	98	1	0.1	0.1
PYSETSLA	26:A-LIKE..WORKING WITH SETS	98	1	0.2	0.1
PYSETSLD	26:D-LIKE..WORKING WITH SETS	98	1	0.3	0.1
PYMEASEA	27:A-EASY..LEARNING UNITS OF MEASURE	99	0	0.4	0.1
PYMEASED	27:D-EASY..LEARNING UNITS OF MEASURE	99	0	0.4	0.1
PYMEASIA	27:A-IMP..LEARNING UNITS OF MEASURE	99	0	0.9	0.0
PYMEASID	27:D-IMP..LEARNING UNITS OF MEASURE	99	0	0.0	0.0
PYMEASLA	27:A-LIKE..LEARNING UNITS OF MEASURE	99	0	0.6	0.1
PYMEASLD	27:D-LIKE..LEARNING UNITS OF MEASURE	99	0	0.2	0.1
PYDRAWEA	28:A-EASY..DRAWING GEOMETRIC FIGURES	99	0	0.6	0.1
PYDRAWED	28:D-EASY..DRAWING GEOMETRIC FIGURES	99	0	0.3	0.1
PYDRAWIA	28:A-IMPORT..DRAWING GEOMETRIC FIGURES	99	0	0.7	0.1
PYDRAWID	28:D-IMPORT..DRAWING GEOMETRIC FIGURES	99	0	0.2	0.1
PYDRAWLA	28:A-LIKE..DRAWING GEOMETRIC FIGURES	99	0	0.6	0.1
PYDRAWLD	28:D-LIKE..DRAWING GEOMETRIC FIGURES	99	0	0.2	0.1
PYSTATEA	29:A-EASY..STATISTICAL TABLES	99	0	0.6	0.1
PYSTATED	29:D-EASY..STATISTICAL TABLES	99	0	0.2	0.1
PYSTATIA	29:A-IMP..STATISTICAL TABLES	99	0	0.7	0.1
PYSTATID	29:D-IMP..STATISTICAL TABLES	99	0	0.1	0.1
PYSTATLA	29:A-LIKE..STATISTICAL TABLES	99	0	0.6	0.1
PYSTATLD	29:D-LIKE..STATISTICAL TABLES	99	0	0.2	0.1
PYFIGEA	3:A-EASY..COMPARING GEOMETRIC FIGURES	99	0	0.4	0.1
PYFIGED	3:D-EASY..COMPARING GEOMETRIC FIGURES	99	0	0.3	0.1
PYFIGIA	3:A-IMP..COMPARING GEOMETRIC FIGURES	99	0	0.7	0.1
PYFIGID	3:D-IMP..COMPARING GEOMETRIC FIGURES	99	0	0.1	0.1

THAILAND -- POPULATION A
CLASS-LEVEL ATTITUDES -- END OF YEAR

VARIABLE	LABEL	N	N MISSING	MEAN	STANDARD DEVIATION
PYFIGLA	3:A-LIKE..COMPARING GEOMETRIC FIGURES	99	0	0.5	0.1
PYFIGLD	3:D-LIKE..COMPARING GEOMETRIC FIGURES	99	0	0.3	0.1

School Questionnaire

THAILAND -- POPULATION A
SCHOOL QUESTIONNAIRE

1:KIND OF COMMUNITY SERVED BY SCHOOL

SAREA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RURAL	48	48.5	48	48.5
SUBURBAN	12	12.1	60	60.6
URBAN	24	24.2	84	84.8
URBAN-SUBURBAN	7	7.1	91	91.9
CITY	8	8.1	99	100.0

2:BOYS..TOTAL ENROLMENT IN SCHOOL

SENROLB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	4	4.1	4	4.1
UNDER 100	5	5.2	9	9.3
100 TO 200	18	18.6	27	27.8
200 TO 300	9	9.3	36	37.1
300 TO 400	6	6.2	42	43.3
400 TO 500	4	4.1	46	47.4
500 TO 600	6	6.2	52	53.6
600 TO 700	1	1.0	53	54.6
700 TO 800	10	10.3	63	64.9
800 TO 900	9	9.3	72	74.2
1000 TO 2000	18	18.6	90	92.8
OVER 2000	7	7.2	97	100.0

2:GIRLS..TOTAL ENROLMENT IN SCHOOL

SENROLG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	3	3.1	3	3.1
UNDER 100	12	12.4	15	15.5
100 TO 200	15	15.5	30	30.9
200 TO 300	11	11.3	41	42.3
300 TO 400	2	2.1	43	44.3
400 TO 500	7	7.2	50	51.5
500 TO 600	6	6.2	56	57.7
600 TO 700	9	9.3	65	67.0
700 TO 800	3	3.1	68	70.1
800 TO 900	2	2.1	70	72.2
900 TO 1000	6	6.2	76	78.4
1000 TO 2000	15	15.5	91	93.8
OVER 2000	6	6.2	97	100.0

2:TOTAL..TOTAL ENROLMENT IN SCHOOL

SENROLT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
100 TO 200	7	7.2	7	7.2
200 TO 300	10	10.3	17	17.5
300 TO 400	5	5.2	22	22.7
400 TO 500	7	7.2	29	29.9
500 TO 600	5	5.2	34	35.1
600 TO 700	2	2.1	36	37.1
700 TO 800	1	1.0	37	38.1
800 TO 900	3	3.1	40	41.2
900 TO 1000	1	1.0	41	42.3
1000 TO 2000	30	30.9	71	73.2
OVER 2000	26	26.8	97	100.0

3:TOTAL..POP A STUDENTS IN SCHOOL

SAPOPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
UNDER 100	17	17.5	17	17.5
100 TO 200	20	20.6	37	38.1
200 TO 300	13	13.4	50	51.5
300 TO 400	18	18.6	68	70.1
400 TO 500	18	18.6	86	88.7
OVER 500	11	11.3	97	100.0

3:BOYS..POP A STUDENTS IN SCHOOL

SAPOPB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	8	8.2	8	8.2
UNDER 100	29	29.9	37	38.1
100 TO 200	29	29.9	66	68.0
200 TO 300	18	18.6	84	86.6
300 TO 400	6	6.2	90	92.8
400 TO 500	5	5.2	95	97.9
OVER 500	2	2.1	97	100.0

3:GIRLS..POP A STUDENTS IN SCHOOL

SAPOPG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	9	9.3	9	9.3
UNDER 100	37	38.1	46	47.4
100 TO 200	32	33.0	78	80.4
200 TO 300	12	12.4	90	92.8
300 TO 400	3	3.1	93	95.9
400 TO 500	4	4.1	97	100.0

THAILAND -- POPULATION A
SCHOOL QUESTIONNAIRE

3:TOTAL..POP A WHO DO NOT TAKE MATH

SNOMTHT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NONE	90	94.7	90	94.7
152	1	1.1	91	95.8
170	1	1.1	92	96.8
333	1	1.1	93	97.9
356	1	1.1	94	98.9
505	1	1.1	95	100.0

3:BOYS..POP A WHO DO NOT TAKE MATH

SNOMTHB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NONE	91	94.8	91	94.8
95	1	1.0	92	95.8
100	1	1.0	93	96.9
202	1	1.0	94	97.9
240	1	1.0	95	99.0
333	1	1.0	96	100.0

3:GIRLS..POP A WHO DO NOT TAKE MATH

SNOMTHG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NONE	91	95.8	91	95.8
57	1	1.1	92	96.8
70	1	1.1	93	97.9
154	1	1.1	94	98.9
265	1	1.1	95	100.0

4:NUMBER OF FULL-TIME TEACHING STAFF

STCHS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
UNDER 10	2	2.1	2	2.1
11 TO 20	11	11.3	13	13.4
21 TO 30	9	9.3	22	22.7
31 TO 40	8	8.2	30	30.9
41 TO 50	4	4.1	34	35.1
51 TO 60	4	4.1	38	39.2
61 TO 70	4	4.1	42	43.3
70 TO 100	22	22.7	64	66.0
100 TO 200	31	32.0	95	97.9
OVER 200	2	2.1	97	100.0

5:MALES..TEACHING ONE OR MORE MATHS

SSOMMM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	10	10.3	10	10.3
UNDER 10	83	85.6	93	95.9
11 TO 20	3	3.1	96	99.0
21 TO 30	1	1.0	97	100.0

5:FEMALES..TEACHING ONE OR MORE MATHS

SSOMMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
NONE	8	8.2	8	8.2
UNDER 10	72	73.5	80	81.6
11 TO 20	16	16.3	96	98.0
31 TO 40	1	1.0	97	99.0
61 TO 70	1	1.0	98	100.0

5:TOTAL..TEACHING ONE OR MORE MATHS

SSOMMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
UNDER 10	58	59.8	59	60.8
11 TO 20	31	32.0	90	92.8
21 TO 30	4	4.1	94	96.9
31 TO 40	1	1.0	95	97.9
41 TO 50	1	1.0	96	99.0
61 TO 70	1	1.0	97	100.0

6:MALES..TEACHING MATH EXCLUSIVELY

SALLMM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
NONE	16	16.3	16	16.3
UNDER 10	79	80.6	95	96.9
11 TO 20	3	3.1	98	100.0

THAILAND -- POPULATION A
SCHOOL QUESTIONNAIRE

6:FEMALES..TEACHING MATH EXCLUSIVELY

SALLMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	14	14.4	14	14.4
UNDER 10	70	72.2	84	86.6
11 TO 20	13	13.4	97	100.0

6:TOTAL..TEACHING MATH EXCLUSIVELY

SALLMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	6	6.2	6	6.2
UNDER 10	57	58.8	63	64.9
11 TO 20	30	30.9	93	95.9
21 TO 30	4	4.1	97	100.0

7:MALES..QUALIFIED MATH SPECIALISTS

SSPECM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NONE	28	29.2	28	29.2
UNDER 10	65	67.7	93	96.9
11 TO 20	2	2.1	95	99.0
31 TO 40	1	1.0	96	100.0

7:FEMALES..QUALIFIED MATH SPECIALISTS

SSPECF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	23	23.7	23	23.7
UNDER 10	70	72.2	93	95.9
11 TO 20	4	4.1	97	100.0

7:TOTAL..QUALIFIED MATH SPECIALISTS

SSPECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NONE	13	13.7	13	13.7
1	16	16.8	29	30.5
2	8	8.4	37	38.9
3	7	7.4	44	46.3
4	5	5.3	49	51.6
5	4	4.2	53	55.8
6	3	3.2	56	58.9
7	4	4.2	60	63.2
8	3	3.2	63	66.3
9	6	6.3	69	72.6
10	4	4.2	73	76.8
11	5	5.3	78	82.1
12	3	3.2	81	85.3
13	1	1.1	82	86.3
14	1	1.1	83	87.4
15	5	5.3	88	92.6
16	3	3.2	91	95.8
17	1	1.1	92	96.8
19	1	1.1	93	97.9
20	1	1.1	94	98.9
38	1	1.1	95	100.0

8:OFFICIAL SCHOOL DAYS PER YEAR

SDAYSYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
108	1	1.1	1	1.1
167	1	1.1	2	2.3
170	1	1.1	3	3.4
174	1	1.1	4	4.5
180	16	18.2	20	22.7
184	1	1.1	21	23.9
185	1	1.1	22	25.0
190	3	3.4	25	28.4
196	1	1.1	26	29.5
197	1	1.1	27	30.7
198	2	2.3	29	33.0
199	2	2.3	31	35.2
200	49	55.7	80	90.9
201	1	1.1	81	92.0
202	1	1.1	82	93.2
204	2	2.3	84	95.5
206	2	2.3	86	97.7
208	1	1.1	87	98.9
210	1	1.1	88	100.0

9:AVERAGE NUMBER OF PERIODS PER DAY

SSCHPER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
3	1	1.0	1	1.0
6	1	1.0	2	2.1
7	81	83.5	83	85.6
8	11	11.3	94	96.9
9	2	2.1	96	99.0
10	1	1.0	97	100.0

THAILAND -- POPULATION A
SCHOOL QUESTIONNAIRE

1:AVERAGE LENGTH OF EACH PERIOD

SPERLEN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
50	99	100.0	99	100.0

11:WHICH SUBJECTS CALCULATORS USED IN

SCALSUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NONE	91	91.9	91	91.9
MATH ONLY	1	1.0	92	92.9
MATH AND SCIENCE	3	3.0	95	96.0
ALL SUBJECTS	4	4.0	99	100.0

12:FREQUENCY MEETINGS MATH TEACHERS

SMEET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NEVER	9	9.3	9	9.3
LESS ONCE A TERM	5	5.2	14	14.4
1 PER TERM	20	20.6	34	35.1
1 PER MONTH	56	57.7	90	92.8
1 EVERY 2 WEEKS	4	4.1	94	96.9
1 PER WEEK	3	3.1	97	100.0

13:ACTIVITIES AT MATH TEACHER MEETINGS

SDOWHAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	37	.	.	.
ORGANIZE & ADMIN	30	48.4	30	48.4
CONTENT TO TEACH	19	30.6	49	79.0
STRATEGIES	7	11.3	56	90.3
PROF DEVELOPMENT	6	9.7	62	100.0

14:POLICY ON FOUR FUNCTION CALCULATOR

SPOLFF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
SET BY TEACHER	13	14.0	13	14.0
FORBIDDEN USE	28	30.1	41	44.1
STUDENTS USE OWN	14	15.1	55	59.1
QUESTN NOT ARISE	38	40.9	93	100.0

15:POLICY ON PROGRAMMED CALCULATOR

SPOLPP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
SET BY TEACHER	13	13.7	13	13.7
FORBIDDEN USE	22	23.2	35	36.8
STUDENTS USE OWN	16	16.8	51	53.7
QUESTN NOT ARISE	44	46.3	95	100.0

16:SETTING OR STREAMING POP A MATH

SSTREAM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
ALL HOMOGENEOUS	49	50.0	49	50.0
SOME HOMOGENEOUS	49	50.0	98	100.0

17:SAME CURRICULUM FOR BOYS AND GIRLS

SBGMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
ALL TOGETHER	81	82.7	81	82.7
SEPARATE	3	3.1	84	85.7
NOT APPLICABLE	14	14.3	98	100.0

Teacher Questionnaire

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

1:SEX OF TEACHER

TSEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
FEMALE	62	63.3	62	63.3
MALE	36	36.7	98	100.0

2:YOUR AGE IN YEARS

TAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
20 TO 25	34	35.1	34	35.1
25 TO 35	46	47.4	80	82.5
35 TO 45	11	11.3	91	93.8
45 TO 55	4	4.1	95	97.9
OVER 55	2	2.1	97	100.0

3:YEARS OF EXPERIENCE AS A TEACHER

TEXPTCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
UNDER 5 YEARS	63	64.3	63	64.3
6 TO 10 YEARS	17	17.3	80	81.6
10 TO 20 YEARS	10	10.2	90	91.8
OVER 20 YEARS	8	8.2	98	100.0

4:YEARS TEACHING MATHEMATICS TO POP A

TEXPMTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
UNDER 5 YEARS	97	98.0	97	98.0
10 TO 20 YEARS	1	1.0	98	99.0
OVER 20 YEARS	1	1.0	99	100.0

5:SEMESTERS POSTSECONDARY MATHEMATICS

TEDMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	25	.	.	.
NONE	16	21.6	16	21.6
1	7	9.5	23	31.1
2	13	17.6	36	48.6
3	12	16.2	48	64.9
4	9	12.2	57	77.0
5	2	2.7	59	79.7
6	4	5.4	63	85.1
7	1	1.4	64	86.5
10	3	4.1	67	90.5
12	2	2.7	69	93.2
14	3	4.1	72	97.3
15	1	1.4	73	98.6
16	1	1.4	74	100.0

6:SEMS POSTSECONDARY MATH PEDAGOGY

TEDMED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	20	.	.	.
NONE	21	26.6	21	26.6
1	37	46.8	58	73.4
2	15	19.0	73	92.4
3	3	3.8	76	96.2
4	3	3.8	79	100.0

7:SEMS POSTSECONDARY GENERAL PEDAGOGY

TEDGED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	25	.	.	.
NONE	19	25.7	19	25.7
1	18	24.3	37	50.0
2	20	27.0	57	77.0
3	12	16.2	69	93.2
4	4	5.4	73	98.6
5	1	1.4	74	100.0

8:TOTAL NUMBER OF TEACHING PERIODS

THRSTCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4	1	1.0	1	1.0
8	1	1.0	2	2.0
12	10	10.1	12	12.1
14	2	2.0	14	14.1
15	1	1.0	15	15.2
16	30	30.3	45	45.5
17	9	9.1	54	54.5
18	15	15.2	69	69.7
19	4	4.0	73	73.7
20	15	15.2	88	88.9
21	3	3.0	91	91.9
22	3	3.0	94	94.9
23	1	1.0	95	96.0
24	2	2.0	97	98.0
25	1	1.0	98	99.0
27	1	1.0	99	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

9:PERIODS PER WEEK TEACHING MATH

THRSMTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4	3	3.0	3	3.0
8	2	2.0	5	5.1
12	13	13.1	18	18.2
14	3	3.0	21	21.2
15	2	2.0	23	23.2
16	39	39.4	62	62.6
17	3	3.0	65	65.7
18	14	14.1	79	79.8
19	1	1.0	80	80.8
20	15	15.2	95	96.0
21	1	1.0	96	97.0
24	2	2.0	98	99.0
27	1	1.0	99	100.0

10:ALSO TEACHER OF SCIENCE

TSCITCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	23	.	.	.
YES	3	3.9	3	3.9
NO	73	96.1	76	100.0

10:ALSO TEACHER IN OTHER AREAS

TOTHTCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	16	.	.	.
YES	29	34.9	29	34.9
NO	54	65.1	83	100.0

10:HEAD OF MATHEMATICS DEPARTMENT

THOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	20	.	.	.
YES	10	12.7	10	12.7
NO	69	87.3	79	100.0

10:ALSO SCHOOL ADMINISTRATOR GENERAL

TADGEN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	17	.	.	.
YES	25	30.5	25	30.5
NO	57	69.5	82	100.0

10:SCHOOL ADMININSTRATOR SUBJECT AREA

TADSUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	18	.	.	.
YES	17	21.0	17	21.0
NO	64	79.0	81	100.0

11:CLASSES..POPULATION A

TPOPAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	10	10.1	10	10.1
2	18	18.2	28	28.3
3	28	28.3	56	56.6
4	31	31.3	87	87.9
5	10	10.1	97	98.0
6	2	2.0	99	100.0

11:HOURS..POPULATION A

TPOPAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
3	1	1.0	1	1.0
4	14	14.4	15	15.5
6	2	2.1	17	17.5
7	8	8.2	25	25.8
8	6	6.2	31	32.0
10	10	10.3	41	42.3
12	16	16.5	57	58.8
13	6	6.2	63	64.9
14	6	6.2	69	71.1
15	2	2.1	71	73.2
16	11	11.3	82	84.5
17	4	4.1	86	88.7
18	2	2.1	88	90.7
20	9	9.3	97	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

11:CLASSES..LOWER THAN POPULATION A

TLOWAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	28	.	.	.
NONE	51	71.8	51	71.8
1	3	4.2	54	76.1
2	14	19.7	68	95.8
3	2	2.8	70	98.6
4	1	1.4	71	100.0

11:HOURS..LOWER THAN POPULATION A

TLOWAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	29	.	.	.
NONE	51	72.9	51	72.9
2	1	1.4	52	74.3
3	3	4.3	55	78.6
4	2	2.9	57	81.4
6	1	1.4	58	82.9
7	4	5.7	62	88.6
8	5	7.1	67	95.7
9	1	1.4	68	97.1
10	1	1.4	69	98.6
13	1	1.4	70	100.0

11:CLASSES..HIGHER THAN POPULATION A

THIGHAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	26	.	.	.
NONE	42	57.5	42	57.5
1	18	24.7	60	82.2
2	11	15.1	71	97.3
3	1	1.4	72	98.6
4	1	1.4	73	100.0

11:HOURS..HIGHER THAN POPULATION A

THIGHAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	27	.	.	.
NONE	40	55.6	40	55.6
2	5	6.9	45	62.5
3	4	5.6	49	68.1
4	6	8.3	55	76.4
5	1	1.4	56	77.8
6	6	8.3	62	86.1
8	4	5.6	66	91.7
9	1	1.4	67	93.1
10	1	1.4	68	94.4
12	2	2.8	70	97.2
14	1	1.4	71	98.6
16	1	1.4	72	100.0

12:HOW MANY SUBJECTS TO TARGET CLASS

TSBJCTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
1	87	87.9	87	87.9
2	12	12.1	99	100.0

13:OTHER TEACHERS MATH TO TARGET CLASS

TNTCHS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	88	95.7	88	95.7
1	3	3.3	91	98.9
2	1	1.1	92	100.0

14:STUDENTS ENROLLED IN TARGET CLASS

TNSTUDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
1 TO 25	2	2.1	2	2.1
26 TO 35	18	18.6	20	20.6
36 TO 45	46	47.4	66	68.0
46 TO 55	29	29.9	95	97.9
OVER 55	2	2.1	97	100.0

15:PERIODS MATH INSTRUCTION EACH WEEK

TPPWEEK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
4	91	91.9	91	91.9
5	6	6.1	97	98.0
6	1	1.0	98	99.0
8	1	1.0	99	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

16:AVERAGE LENGTH CLASS PERIOD MINUTES

TLENPER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
45	1	1.0	1	1.0
50	98	99.0	99	100.0

17:HOURS OF MATH BY END OF YEAR

THPYEAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	17	.	.	.
UNDER 120 HOURS	61	74.4	61	74.4
120 TO 140 HOURS	11	13.4	72	87.8
OVER 140 HOURS	10	12.2	82	100.0

18:CLASS COMPARED WITH OTHER CLASSES

TCFMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NO OTHER POPA	5	5.1	5	5.1
HIGHER	20	20.2	25	25.3
SAME	50	50.5	75	75.8
LOWER	24	24.2	99	100.0

19:RANGE OF MATH ABILITIES CLASS

TRANGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
VERY WIDE	7	7.1	7	7.1
FAIRLY WIDE	57	57.6	64	64.6
FAIRLY NARROW	28	28.3	92	92.9
VERY NARROW	7	7.1	99	100.0

20:MASTERY OF PREVIOUS CURRICULUM

TMASTRY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
UNDER 10%	10	10.6	10	10.6
11 TO 25%	9	9.6	19	20.2
20 TO 50%	28	29.8	47	50.0
40 TO 75%	36	38.3	83	88.3
75 TO 90%	11	11.7	94	100.0

21:CHARACTER MAIN MATH SUBJECT MATTER

TMTHSUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
REMEDIAL	33	34.0	33	34.0
TYPICAL	44	45.4	77	79.4
ENRICHED	20	20.6	97	100.0

22:STUDENTS IN NATIONAL TOP THIRD

TTOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	35	.	.	.
NONE	16	25.0	16	25.0
ONE TO TEN	37	57.8	53	82.8
ELEVEN TO TWENTY	11	17.2	64	100.0

22:STUDENTS IN NATIONAL MIDDLE THIRD

TMIDDLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	28	.	.	.
NONE	4	5.6	4	5.6
ONE TO TEN	23	32.4	27	38.0
ELEVEN TO TWENTY	27	38.0	54	76.1
TWENTY TO FORTY	16	22.5	70	98.6
OVER FORTY	1	1.4	71	100.0

22:NUMBER OF STUDENTS NATIONAL BOTTOM

TBOTTOM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	34	.	.	.
NONE	3	4.6	3	4.6
ONE TO TEN	25	38.5	28	43.1
ELEVEN TO TWENTY	18	27.7	46	70.8
TWENTY TO FORTY	17	26.2	63	96.9
OVER FORTY	2	3.1	65	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

22:NUMBER OF STUDENTS UNABLE TO JUDGE

TNOJDG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	37	.	.	.
NONE	34	54.8	34	54.8
ONE TO TEN	17	27.4	51	82.3
ELEVEN TO TWENTY	3	4.8	54	87.1
TWENTY TO FORTY	6	9.7	60	96.8
OVER FORTY	2	3.2	62	100.0

23:LAST WEEK..PREPARATION FOR MATH (MINS

TPREPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
5	1	1.1	1	1.1
10	1	1.1	2	2.2
12	1	1.1	3	3.3
15	2	2.2	5	5.4
20	9	9.8	14	15.2
25	2	2.2	16	17.4
30	7	7.6	23	25.0
40	11	12.0	34	37.0
45	2	2.2	36	39.1
50	4	4.3	40	43.5
60	14	15.2	54	58.7
65	1	1.1	55	59.8
70	1	1.1	56	60.9
75	2	2.2	58	63.0
80	6	6.5	64	69.6
90	2	2.2	66	71.7
100	2	2.2	68	73.9
120	9	9.8	77	83.7
150	3	3.3	80	87.0
180	5	5.4	85	92.4
190	1	1.1	86	93.5
200	1	1.1	87	94.6
240	2	2.2	89	96.7
250	3	3.3	92	100.0

23:TYPICAL WEEK..PREPARATION FOR MATH (M

TPREPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
8	1	1.1	1	1.1
20	7	7.5	8	8.6
30	12	12.9	20	21.5
35	2	2.2	22	23.7
40	7	7.5	29	31.2
48	1	1.1	30	32.3
50	6	6.5	36	38.7
60	20	21.5	56	60.2
70	2	2.2	58	62.4
75	3	3.2	61	65.6
80	3	3.2	64	68.8
90	3	3.2	67	72.0
100	3	3.2	70	75.3
120	11	11.8	81	87.1
160	1	1.1	82	88.2
180	3	3.2	85	91.4
200	5	5.4	90	96.8
240	1	1.1	91	97.8
250	2	2.2	93	100.0

23:LAST WEEK..GRADING STUDENT WORK (MINS

TGRADEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	17	.	.	.
0	2	2.4	2	2.4
10	1	1.2	3	3.7
15	1	1.2	4	4.9
20	2	2.4	6	7.3
30	6	7.3	12	14.6
40	2	2.4	14	17.1
50	7	8.5	21	25.6
60	6	7.3	27	32.9
80	2	2.4	29	35.4
90	2	2.4	31	37.8
100	2	2.4	33	40.2
120	10	12.2	43	52.4
150	3	3.7	46	56.1
180	6	7.3	52	63.4
200	4	4.9	56	68.3
240	7	8.5	63	76.8
250	3	3.7	66	80.5
300	4	4.9	70	85.4
350	3	3.7	73	89.0
360	4	4.9	77	93.9
400	5	6.1	82	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

23:TYPICAL WEEK..GRADING STUDENT WORK (M

TGRADET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
0	1	1.2	1	1.2
20	1	1.2	2	2.4
30	3	3.5	5	5.9
40	3	3.5	8	9.4
45	2	2.4	10	11.8
50	5	5.9	15	17.6
55	1	1.2	16	18.8
60	8	9.4	24	28.2
70	1	1.2	25	29.4
80	1	1.2	26	30.6
90	2	2.4	28	32.9
100	5	5.9	33	38.8
120	10	11.8	43	50.6
150	1	1.2	44	51.8
160	1	1.2	45	52.9
180	7	8.2	52	61.2
200	8	9.4	60	70.6
240	4	4.7	64	75.3
250	2	2.4	66	77.6
280	1	1.2	67	78.8
300	8	9.4	75	88.2
350	2	2.4	77	90.6
360	3	3.5	80	94.1
400	5	5.9	85	100.0

23:LAST WEEK..EXPLAINING NEW CONTENT (MI

TEXPLNL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
0	2	2.2	2	2.2
10	1	1.1	3	3.2
12	1	1.1	4	4.3
15	1	1.1	5	5.4
25	1	1.1	6	6.5
30	16	17.2	22	23.7
34	1	1.1	23	24.7
35	1	1.1	24	25.8
40	8	8.6	32	34.4
45	2	2.2	34	36.6
50	3	3.2	37	39.8
60	5	5.4	42	45.2
70	1	1.1	43	46.2
75	1	1.1	44	47.3
80	3	3.2	47	50.5
90	2	2.2	49	52.7
100	6	6.5	55	59.1
120	13	14.0	68	73.1
130	4	4.3	72	77.4
140	1	1.1	73	78.5
150	4	4.3	77	82.8
160	3	3.2	80	86.0
170	1	1.1	81	87.1
180	2	2.2	83	89.2
200	7	7.5	90	96.8
250	3	3.2	93	100.0

23:TYPICAL WEEK..EXPLAINING CONTENT (MIN

TEXPLNT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
0	1	1.1	1	1.1
10	1	1.1	2	2.2
15	1	1.1	3	3.2
20	3	3.2	6	6.5
25	2	2.2	8	8.6
30	11	11.8	19	20.4
35	1	1.1	20	21.5
40	8	8.6	28	30.1
45	1	1.1	29	31.2
50	5	5.4	34	36.6
60	6	6.5	40	43.0
80	5	5.4	45	48.4
90	3	3.2	48	51.6
100	8	8.6	56	60.2
110	2	2.2	58	62.4
120	15	16.1	73	78.5
140	1	1.1	74	79.6
150	5	5.4	79	84.9
160	4	4.3	83	89.2
170	1	1.1	84	90.3
175	1	1.1	85	91.4
180	1	1.1	86	92.5
200	7	7.5	93	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

23:LAST WEEK..REVIEWING (MINS)

TREVUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
0	3	3.1	3	3.1
5	4	4.2	7	7.3
10	9	9.4	16	16.7
12	1	1.0	17	17.7
15	5	5.2	22	22.9
20	10	10.4	32	33.3
25	3	3.1	35	36.5
30	9	9.4	44	45.8
35	1	1.0	45	46.9
40	21	21.9	66	68.7
50	12	12.5	78	81.2
60	8	8.3	86	89.6
70	2	2.1	88	91.7
80	4	4.2	92	95.8
100	2	2.1	94	97.9
120	2	2.1	96	100.0

23:TYPICAL WEEK..REVIEWING (MINS)

TREVUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
0	1	1.0	1	1.0
5	1	1.0	2	2.1
10	7	7.3	9	9.4
15	10	10.4	19	19.8
20	11	11.5	30	31.2
25	3	3.1	33	34.4
30	10	10.4	43	44.8
40	18	18.8	61	63.5
45	2	2.1	63	65.6
50	15	15.6	78	81.2
60	10	10.4	88	91.7
80	1	1.0	89	92.7
90	1	1.0	90	93.7
100	3	3.1	93	96.9
120	3	3.1	96	100.0

23:LAST WEEK..ROUTINE ADMINISTRATION(MIN

TADMINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
0	9	10.3	9	10.3
3	1	1.1	10	11.5
5	15	17.2	25	28.7
6	1	1.1	26	29.9
10	15	17.2	41	47.1
15	5	5.7	46	52.9
20	17	19.5	63	72.4
24	1	1.1	64	73.6
25	3	3.4	67	77.0
30	12	13.8	79	90.8
40	1	1.1	80	92.0
50	3	3.4	83	95.4
60	4	4.6	87	100.0

23:TYPICAL WK..ROUTINE ADMINISTRATION (M

TADMINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
0	9	9.9	9	9.9
3	2	2.2	11	12.1
5	11	12.1	22	24.2
8	1	1.1	23	25.3
10	16	17.6	39	42.9
12	1	1.1	40	44.0
15	6	6.6	46	50.5
20	21	23.1	67	73.6
24	2	2.2	69	75.8
25	4	4.4	73	80.2
30	7	7.7	80	87.9
40	2	2.2	82	90.1
45	1	1.1	83	91.2
50	3	3.3	86	94.5
60	5	5.5	91	100.0

23:LAST WEEK..MAINTAINING CLASS ORDER (M

TORDERL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
0	5	5.4	5	5.4
2	1	1.1	6	6.5
3	1	1.1	7	7.6
4	1	1.1	8	8.7
5	22	23.9	30	32.6
8	1	1.1	31	33.7
10	15	16.3	46	50.0
15	4	4.3	50	54.3
20	22	23.9	72	78.3
24	1	1.1	73	79.3
25	1	1.1	74	80.4
30	9	9.8	83	90.2
40	4	4.3	87	94.6
50	5	5.4	92	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

23:TYPICAL WEEK..MAINTAIN CLASS ORDER (M

TORDERT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
0	3	3.3	3	3.3
2	1	1.1	4	4.4
3	1	1.1	5	5.6
4	1	1.1	6	6.7
5	19	21.1	25	27.8
8	3	3.3	28	31.1
10	18	20.0	46	51.1
15	6	6.7	52	57.8
20	21	23.3	73	81.1
24	1	1.1	74	82.2
25	2	2.2	76	84.4
30	10	11.1	86	95.6
40	1	1.1	87	96.7
50	3	3.3	90	100.0

24:LAST WEEK..TAKING TESTS & QUIZZES (MI

TTESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
0	20	22.2	20	22.2
5	2	2.2	22	24.4
10	1	1.1	23	25.6
15	2	2.2	25	27.8
20	10	11.1	35	38.9
25	2	2.2	37	41.1
30	15	16.7	52	57.8
40	7	7.8	59	65.6
45	1	1.1	60	66.7
50	30	33.3	90	100.0

24:TYPICAL WEEK..TESTS & QUIZZES(MINS)

TTESTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	16	.	.	.
0	11	13.3	11	13.3
6	1	1.2	12	14.5
7	1	1.2	13	15.7
10	6	7.2	19	22.9
15	3	3.6	22	26.5
20	15	18.1	37	44.6
25	1	1.2	38	45.8
30	15	18.1	53	63.9
40	6	7.2	59	71.1
45	2	2.4	61	73.5
50	22	26.5	83	100.0

24:LAST WEEK..SEAT OR BLACKBOARD WORK (M

TSEATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
0	7	7.8	7	7.8
5	2	2.2	9	10.0
15	7	7.8	16	17.8
20	16	17.8	32	35.6
30	8	8.9	40	44.4
35	1	1.1	41	45.6
40	8	8.9	49	54.4
45	2	2.2	51	56.7
50	8	8.9	59	65.6
60	5	5.6	64	71.1
70	1	1.1	65	72.2
80	12	13.3	77	85.6
90	1	1.1	78	86.7
100	8	8.9	86	95.6
120	4	4.4	90	100.0

24:TYPICAL WEEK..SEAT BLACKBOARD WORK (M

TSEATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
0	3	3.3	3	3.3
5	1	1.1	4	4.3
10	3	3.3	7	7.6
15	7	7.6	14	15.2
20	13	14.1	27	29.3
30	9	9.8	36	39.1
40	7	7.6	43	46.7
45	2	2.2	45	48.9
50	7	7.6	52	56.5
60	7	7.6	59	64.1
80	14	15.2	73	79.3
90	3	3.3	76	82.6
100	10	10.9	86	93.5
120	6	6.5	92	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

24:LAST WEEK..WHOLE CLASS LECTURES (MINS

TLISTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
0	4	4.4	4	4.4
10	2	2.2	6	6.7
20	4	4.4	10	11.1
30	10	11.1	20	22.2
35	3	3.3	23	25.6
40	3	3.3	26	28.9
50	1	1.1	27	30.0
60	5	5.6	32	35.6
70	1	1.1	33	36.7
75	1	1.1	34	37.8
80	6	6.7	40	44.4
100	12	13.3	52	57.8
110	1	1.1	53	58.9
115	1	1.1	54	60.0
120	22	24.4	76	84.4
130	1	1.1	77	85.6
140	3	3.3	80	88.9
150	7	7.8	87	96.7
160	3	3.3	90	100.0

24:TYPICAL WEEK..WHOLE CLASS LECTURES (M

TLISTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
0	1	1.1	1	1.1
20	3	3.3	4	4.4
30	10	11.1	14	15.6
35	4	4.4	18	20.0
40	5	5.6	23	25.6
60	5	5.6	28	31.1
75	1	1.1	29	32.2
80	9	10.0	38	42.2
90	1	1.1	39	43.3
100	10	11.1	49	54.4
110	1	1.1	50	55.6
120	27	30.0	77	85.6
140	4	4.4	81	90.0
150	6	6.7	87	96.7
160	3	3.3	90	100.0

24:LAST WEEK..WORKING IN SMALL GROUPS (M

TGROUPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
0	43	50.0	43	50.0
5	1	1.2	44	51.2
10	8	9.3	52	60.5
12	1	1.2	53	61.6
20	10	11.6	63	73.3
25	3	3.5	66	76.7
30	5	5.8	71	82.6
40	6	7.0	77	89.5
45	1	1.2	78	90.7
50	5	5.8	83	96.5
60	3	3.5	86	100.0

24:TYPICAL WEEK..WORKING SMALL GROUPS (M

TGROUPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	17	.	.	.
0	34	41.5	34	41.5
5	1	1.2	35	42.7
10	6	7.3	41	50.0
12	1	1.2	42	51.2
15	5	6.1	47	57.3
20	12	14.6	59	72.0
25	3	3.7	62	75.6
30	5	6.1	67	81.7
40	5	6.1	72	87.8
45	1	1.2	73	89.0
50	6	7.3	79	96.3
60	3	3.7	82	100.0

25:STUDENTS CALLED ORAL QUESTIONS

TQUEST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
0% TO 25%	13	13.1	13	13.1
> 25% TO 50%	45	45.5	58	58.6
> 50% TO 75%	32	32.3	90	90.9
> 75% TO 100%	9	9.1	99	100.0

26:DIFFERENTIATE EXERCISES ASSIGNMENTS

TDIFASG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
FREQUENTLY	12	12.1	12	12.1
OCCASIONALLY	55	55.6	67	67.7
RARELY OR NEVER	32	32.3	99	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

27:LAST WEEK..HOURS OF HOMEWORK

THWRKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	3	3.4	3	3.4
1	12	13.6	15	17.0
2	17	19.3	32	36.4
3	20	22.7	52	59.1
4	16	18.2	68	77.3
5	8	9.1	76	86.4
6	4	4.5	80	90.9
7	1	1.1	81	92.0
8	4	4.5	85	96.6
10	2	2.3	87	98.9
12	1	1.1	88	100.0

27:TYPICAL WEEK..HOURS OF HOMEWORK

THWRKT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
1	6	6.6	6	6.6
2	22	24.2	28	30.8
3	15	16.5	43	47.3
4	24	26.4	67	73.6
5	11	12.1	78	85.7
6	5	5.5	83	91.2
7	2	2.2	85	93.4
8	2	2.2	87	95.6
10	3	3.3	90	98.9
12	1	1.1	91	100.0

28:USE FOUR FUNCTION CALCULATORS

TFFCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
OCCASIONALLY	1	1.2	1	1.2
NEVER	70	81.4	71	82.6
NOT ALLOWED	15	17.4	86	100.0

28:USE PROGRAM SCIENTIFIC CALCULATORS

TPPCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	20	.	.	.
NEVER	65	82.3	65	82.3
NOT ALLOWED	14	17.7	79	100.0

29:CALCULATOR CHECK ANSWER TO EXERCISE

TCCCHK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
4 FUNC CALC ONLY	8	28.6	8	28.6
PROGRM CALC ONLY	3	10.7	11	39.3
COMPUTER ONLY	2	7.1	13	46.4
1 + 2 ONLY	11	39.3	24	85.7
2 + 3 ONLY	1	3.6	25	89.3
ALL THREE-1 + 2	3	10.7	28	100.0

29:CALCULATORS TO DO HOMEWORK

TCCHWRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
4 FUNC CALC ONLY	9	56.3	9	56.3
PROGRM CALC ONLY	2	12.5	11	68.8
1 + 2 ONLY	5	31.3	16	100.0

29:CALCULATOR AS AID TO SOLVE PROBLEMS

TCCSLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
4 FUNC CALC ONLY	6	35.3	6	35.3
PROGRM CALC ONLY	3	17.6	9	52.9
1 + 2 ONLY	7	41.2	16	94.1
ALL THREE-1 + 2	1	5.9	17	100.0

29:CALCULATORS TO TAKE TESTS

TCCTEST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
4 FUNC CALC ONLY	3	33.3	3	33.3
PROGRM CALC ONLY	1	11.1	4	44.4
1 + 2 ONLY	4	44.4	8	88.9
ALL THREE-1 + 2	1	11.1	9	100.0

THAILAND -- POPULATION A
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29:CALCULATORS AS AID TO DO PROJECTS

TCCPROJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	62	.	.	.
4 FUNC CALC ONLY	7	18.9	7	18.9
PROGRM CALC ONLY	5	13.5	12	32.4
COMPUTER ONLY	1	2.7	13	35.1
1 + 2 ONLY	17	45.9	30	81.1
ALL THREE-1 + 2	7	18.9	37	100.0

29:CALCULATORS FOR RECREATION

TCCPLSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	58	.	.	.
4 FUNC CALC ONLY	12	29.3	12	29.3
PROGRM CALC ONLY	4	9.8	16	39.0
COMPUTER ONLY	1	2.4	17	41.5
1 + 2 ONLY	13	31.7	30	73.2
ALL THREE-1 + 2	11	26.8	41	100.0

30:PERIODS..COMMON FRACTIONS

TFRACP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
3	2	2.2	2	2.2
4	2	2.2	4	4.3
5	10	10.9	14	15.2
6	5	5.4	19	20.7
8	5	5.4	24	26.1
9	2	2.2	26	28.3
10	17	18.5	43	46.7
11	1	1.1	44	47.8
12	13	14.1	57	62.0
13	8	8.7	65	70.7
14	3	3.3	68	73.9
15	11	12.0	79	85.9
16	2	2.2	81	88.0
18	2	2.2	83	90.2
20	8	8.7	91	98.9
25	1	1.1	92	100.0

30:REVIEW..COMMON FRACTIONS

TFRACR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
YES	28	30.4	28	30.4
NO	64	69.6	92	100.0

30:PERIODS..DECIMAL FRACTIONS

TDECIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
2	1	1.1	1	1.1
3	6	6.6	7	7.7
4	5	5.5	12	13.2
5	6	6.6	18	19.8
6	8	8.8	26	28.6
7	6	6.6	32	35.2
8	9	9.9	41	45.1
9	4	4.4	45	49.5
10	23	25.3	68	74.7
11	2	2.2	70	76.9
12	8	8.8	78	85.7
13	1	1.1	79	86.8
14	2	2.2	81	89.0
15	4	4.4	85	93.4
16	1	1.1	86	94.5
18	2	2.2	88	96.7
20	3	3.3	91	100.0

30:REVIEW..DECIMAL FRACTIONS

TDECIMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
YES	30	33.0	30	33.0
NO	61	67.0	91	100.0

30:PERIODS..RATIO AND PROPORTION

TRATIOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
2	3	3.4	3	3.4
3	6	6.8	9	10.2
4	9	10.2	18	20.5
5	11	12.5	29	33.0
6	11	12.5	40	45.5
7	13	14.8	53	60.2
8	10	11.4	63	71.6
9	1	1.1	64	72.7
10	12	13.6	76	86.4
11	3	3.4	79	89.8
12	3	3.4	82	93.2
14	1	1.1	83	94.3
15	5	5.7	88	100.0

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30:REVIEW..RATIO AND PROPORTION

TRATIOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
YES	27	30.0	27	30.0
NO	63	70.0	90	100.0

30:PERIODS..PERCENTAGE

TPERCP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
1	1	1.1	1	1.1
2	1	1.1	2	2.2
3	1	1.1	3	3.3
4	12	13.3	15	16.7
5	15	16.7	30	33.3
6	12	13.3	42	46.7
7	12	13.3	54	60.0
8	12	13.3	66	73.3
9	2	2.2	68	75.6
10	12	13.3	80	88.9
11	4	4.4	84	93.3
12	1	1.1	85	94.4
14	1	1.1	86	95.6
15	1	1.1	87	96.7
18	3	3.3	90	100.0

30:REVIEW..PERCENTAGE

TPERCR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
YES	30	33.3	30	33.3
NO	60	66.7	90	100.0

30:PERIODS..MEASUREMENT

TMESURP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
0	1	1.1	1	1.1
1	1	1.1	2	2.2
2	7	7.9	9	10.1
3	10	11.2	19	21.3
4	28	31.5	47	52.8
5	16	18.0	63	70.8
6	7	7.9	70	78.7
7	2	2.2	72	80.9
8	6	6.7	78	87.6
9	2	2.2	80	89.9
10	2	2.2	82	92.1
12	2	2.2	84	94.4
15	1	1.1	85	95.5
16	2	2.2	87	97.8
18	2	2.2	89	100.0

30:REVIEW..MEASUREMENT

TMESURR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
YES	22	24.7	22	24.7
NO	67	75.3	89	100.0

30:PERIODS..GEOMETRY

TGEOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
3	2	2.4	2	2.4
4	3	3.5	5	5.9
5	3	3.5	8	9.4
6	4	4.7	12	14.1
7	7	8.2	19	22.4
8	8	9.4	27	31.8
10	12	14.1	39	45.9
12	3	3.5	42	49.4
13	2	2.4	44	51.8
14	2	2.4	46	54.1
15	8	9.4	54	63.5
17	4	4.7	58	68.2
18	3	3.5	61	71.8
19	2	2.4	63	74.1
20	6	7.1	69	81.2
23	2	2.4	71	83.5
24	3	3.5	74	87.1
25	6	7.1	80	94.1
26	1	1.2	81	95.3
28	1	1.2	82	96.5
30	3	3.5	85	100.0

30:REVIEW..GEOMETRY

TGEOMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
YES	34	37.8	34	37.8
NO	56	62.2	90	100.0

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30:PERIODS..FORMULAS AND EQUATIONS

TFORMLP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
2	1	1.1	1	1.1
3	2	2.3	3	3.4
4	1	1.1	4	4.5
5	3	3.4	7	8.0
6	4	4.5	11	12.5
8	7	8.0	18	20.5
9	2	2.3	20	22.7
10	8	9.1	28	31.8
12	24	27.3	52	59.1
13	2	2.3	54	61.4
14	4	4.5	58	65.9
15	12	13.6	70	79.5
16	1	1.1	71	80.7
18	7	8.0	78	88.6
20	10	11.4	88	100.0

30:REVIEW..FORMULAS AND EQUATIONS

TFORMLR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
YES	32	36.4	32	36.4
NO	56	63.6	88	100.0

30:PERIODS..INTEGERS

TINTEGP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
1	1	1.1	1	1.1
3	3	3.3	4	4.4
4	1	1.1	5	5.5
5	4	4.4	9	9.9
6	6	6.6	15	16.5
7	1	1.1	16	17.6
8	4	4.4	20	22.0
10	16	17.6	36	39.6
11	1	1.1	37	40.7
12	5	5.5	42	46.2
13	2	2.2	44	48.4
14	2	2.2	46	50.5
15	4	4.4	50	54.9
16	2	2.2	52	57.1
18	1	1.1	53	58.2
20	13	14.3	66	72.5
23	10	11.0	76	83.5
24	2	2.2	78	85.7
25	7	7.7	85	93.4
26	1	1.1	86	94.5
27	1	1.1	87	95.6
28	1	1.1	88	96.7
29	1	1.1	89	97.8
30	2	2.2	91	100.0

30:REVIEW..INTEGERS

TINTEGR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
YES	35	38.9	35	38.9
NO	55	61.1	90	100.0

30:PERIODS..PROBABILITY AND STATISTICS

TPROBP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
0	12	14.1	12	14.1
1	1	1.2	13	15.3
2	1	1.2	14	16.5
3	4	4.7	18	21.2
4	1	1.2	19	22.4
5	5	5.9	24	28.2
6	9	10.6	33	38.8
7	2	2.4	35	41.2
8	2	2.4	37	43.5
9	1	1.2	38	44.7
10	10	11.8	48	56.5
11	3	3.5	51	60.0
12	11	12.9	62	72.9
13	1	1.2	63	74.1
14	2	2.4	65	76.5
15	6	7.1	71	83.5
16	3	3.5	74	87.1
18	5	5.9	79	92.9
19	1	1.2	80	94.1
20	5	5.9	85	100.0

30:REVIEW..PROBABILITY AND STATISTICS

TPROBR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	18	.	.	.
YES	28	34.6	28	34.6
NO	53	65.4	81	100.0

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31:PUBLISHED TEXTBOOKS

TTEXTBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
RARELY OR NEVER	8	8.2	8	8.2
SOMETIMES	29	29.6	37	37.8
OFTEN	61	62.2	98	100.0

31:PUBLISHED WORKBOOKS PROBLEM SETS

TWORKBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
RARELY OR NEVER	39	40.2	39	40.2
SOMETIMES	34	35.1	73	75.3
OFTEN	24	24.7	97	100.0

31:INDIVIDUALIZED MATERIALS

TINDMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
RARELY OR NEVER	72	75.0	72	75.0
SOMETIMES	24	25.0	96	100.0

31:COMMERCIALLY PRODUCED VISUAL AIDS

TVISMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
RARELY OR NEVER	60	61.9	60	61.9
SOMETIMES	37	38.1	97	100.0

31:COMMERCIALLY PUBLISHED TESTS

TPUBTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
RARELY OR NEVER	69	71.1	69	71.1
SOMETIMES	27	27.8	96	99.0
OFTEN	1	1.0	97	100.0

31:TEACHING MATERIALS YOU HAVE WRITTEN

TOWNMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	6	6.1	6	6.1
SOMETIMES	63	63.6	69	69.7
OFTEN	30	30.3	99	100.0

31:TESTS YOU HAVE WRITTEN

TOWNTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
RARELY OR NEVER	4	4.0	4	4.0
SOMETIMES	33	33.3	37	37.4
OFTEN	62	62.6	99	100.0

32:MAIN TEXTBOOK WORKBOOK NATONAL LIST

TCOMTXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
0	2	2.3	2	2.3
1	23	26.1	25	28.4
2	24	27.3	49	55.7
4	4	4.5	53	60.2
5	24	27.3	77	87.5
7	2	2.3	79	89.8
9	8	9.1	87	98.9
14	1	1.1	88	100.0

33:IMPORTANT..CHECKING AN ANSWER

TCHKI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
VERY IMPORTANT	41	42.3	41	42.3
IMPORTANT	47	48.5	88	90.7
UNDECIDED	2	2.1	90	92.8
NOT IMPORTANT	7	7.2	97	100.0

33:A-IMPORTANT..CHECKING AN ANSWER

TCHKIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT AGREE	9	9.3	9	9.3
AGREE	88	90.7	97	100.0

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33:D-IMPORTANT..CHECKING AN ANSWER

TCHKID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT DISAGREE	90	92.8	90	92.8
DISAGREE	7	7.2	97	100.0

33:EASY..CHECKING AN ANSWER

TCHKE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY EASY	6	6.7	6	6.7
EASY	50	55.6	56	62.2
UNDECIDED	9	10.0	65	72.2
HARD	25	27.8	90	100.0

33:A-EASY..CHECKING AN ANSWER

TCHKEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NOT AGREE	34	37.8	34	37.8
AGREE	56	62.2	90	100.0

33:D-EASY..CHECKING AN ANSWER

TCHKED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NOT DISAGREE	65	72.2	65	72.2
DISAGREE	25	27.8	90	100.0

33:LIKE..CHECKING AN ANSWER

TCHKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
LIKE A LOT	9	9.8	9	9.8
LIKE	60	65.2	69	75.0
UNDECIDED	3	3.3	72	78.3
DISLIKE	20	21.7	92	100.0

33:A-LIKE..CHECKING AN ANSWER

TCHKLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT AGREE	23	25.0	23	25.0
AGREE	69	75.0	92	100.0

33:D-LIKE..CHECKING AN ANSWER

TCHKLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT DISAGREE	72	78.3	72	78.3
DISAGREE	20	21.7	92	100.0

34:IMPORT..MEMORIZING RULES FORMULAS

TMEMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
VERY IMPORTANT	51	52.6	51	52.6
IMPORTANT	43	44.3	94	96.9
NOT IMPORTANT	3	3.1	97	100.0

34:A-IMPORT..MEMORIZING RULES FORMULAS

TMEMIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT AGREE	3	3.1	3	3.1
AGREE	94	96.9	97	100.0

34:D-IMPORT..MEMORIZING RULES FORMULAS

TMEMID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT DISAGREE	94	96.9	94	96.9
DISAGREE	3	3.1	97	100.0

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34:EASY..MEMORIZING RULES FORMULAS

TMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
VERY EASY	4	4.4	4	4.4
EASY	48	52.7	52	57.1
UNDECIDED	9	9.9	61	67.0
HARD	29	31.9	90	98.9
VERY HARD	1	1.1	91	100.0

34:A-EASY..MEMORIZING RULES FORMULAS

TMEMEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
NOT AGREE	39	42.9	39	42.9
AGREE	52	57.1	91	100.0

34:D-EASY..MEMORIZING RULES FORMULAS

TMEMED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
NOT DISAGREE	61	67.0	61	67.0
DISAGREE	30	33.0	91	100.0

34:LIKE..MEMORIZING RULES FORMULAS

TMEML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
LIKE A LOT	11	12.0	11	12.0
LIKE	50	54.3	61	66.3
UNDECIDED	7	7.6	68	73.9
DISLIKE	24	26.1	92	100.0

34:A-LIKE..MEMORIZING RULES FORMULAS

TMEMLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT AGREE	31	33.7	31	33.7
AGREE	61	66.3	92	100.0

34:D-LIKE..MEMORIZING RULES FORMULAS

TMEMLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT DISAGREE	68	73.9	68	73.9
DISAGREE	24	26.1	92	100.0

35:IMPORTANT..SOLVING WORD PROBLEMS

TWPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
VERY IMPORTANT	49	51.0	49	51.0
IMPORTANT	45	46.9	94	97.9
UNDECIDED	2	2.1	96	100.0

35:A-IMPORTANT..SOLVING WORD PROBLEMS

TWPIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT AGREE	2	2.1	2	2.1
AGREE	94	97.9	96	100.0

35:D-IMPORTANT..SOLVING WORD PROBLEMS

TWPID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT DISAGREE	96	100.0	96	100.0

35:EASY..SOLVING WORD PROBLEMS

TWPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
VERY EASY	2	2.2	2	2.2
EASY	15	16.3	17	18.5
UNDECIDED	13	14.1	30	32.6
HARD	57	62.0	87	94.6
VERY HARD	5	5.4	92	100.0

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35:A-EASY..SOLVING WORD PROBLEMS

TWPEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT AGREE	75	81.5	75	81.5
AGREE	17	18.5	92	100.0

35:D-EASY..SOLVING WORD PROBLEMS

TWPED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT DISAGREE	30	32.6	30	32.6
DISAGREE	62	67.4	92	100.0

35:LIKE..SOLVING WORD PROBLEMS

TWPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
LIKE A LOT	15	16.7	15	16.7
LIKE	54	60.0	69	76.7
UNDECIDED	8	8.9	77	85.6
DISLIKE	12	13.3	89	98.9
DISLIKE A LOT	1	1.1	90	100.0

35:A-LIKE..SOLVING WORD PROBLEMS

TWPLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NOT AGREE	21	23.3	21	23.3
AGREE	69	76.7	90	100.0

35:D-LIKE..SOLVING WORD PROBLEMS

TWPLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NOT DISAGREE	77	85.6	77	85.6
DISAGREE	13	14.4	90	100.0

36:IMPORTANT..ESTIMATING ANSWERS

TESTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
VERY IMPORTANT	12	12.5	12	12.5
IMPORTANT	51	53.1	63	65.6
UNDECIDED	9	9.4	72	75.0
NOT IMPORTANT	21	21.9	93	96.9
NOT AT ALL IMPOR	3	3.1	96	100.0

36:A-IMPORTANT..ESTIMATING ANSWERS

TESTIA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT AGREE	33	34.4	33	34.4
AGREE	63	65.6	96	100.0

36:D-IMPORTANT..ESTIMATING ANSWERS

TESTID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT DISAGREE	72	75.0	72	75.0
DISAGREE	24	25.0	96	100.0

36:EASY..ESTIMATING ANSWERS

TESTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
VERY EASY	3	3.3	3	3.3
EASY	20	21.7	23	25.0
UNDECIDED	23	25.0	46	50.0
HARD	43	46.7	89	96.7
VERY HARD	3	3.3	92	100.0

36:A-EASY..ESTIMATING ANSWERS

TESTEA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT AGREE	69	75.0	69	75.0
AGREE	23	25.0	92	100.0

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36:D-EASY..ESTIMATING ANSWERS

TESTED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NOT DISAGREE	46	50.0	46	50.0
DISAGREE	46	50.0	92	100.0

36:LIKE..ESTIMATING ANSWERS

TESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
LIKE A LOT	8	8.6	8	8.6
LIKE	47	50.5	55	59.1
UNDECIDED	7	7.5	62	66.7
DISLIKE	26	28.0	88	94.6
DISLIKE A LOT	5	5.4	93	100.0

36:A-LIKE..ESTIMATING ANSWERS

TESTLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NOT AGREE	38	40.9	38	40.9
AGREE	55	59.1	93	100.0

36:D-LIKE..ESTIMATING ANSWERS

TESTLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NOT DISAGREE	62	66.7	62	66.7
DISAGREE	31	33.3	93	100.0

37:MATH CHANGE RAPIDLY IN NEAR FUTURE

TCHANGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY DISAGRE	3	3.1	3	3.1
DISAGREE	20	20.4	23	23.5
UNDECIDED	19	19.4	42	42.9
AGREE	50	51.0	92	93.9
STRONGLY AGREE	6	6.1	98	100.0

38:MATH GOOD FIELD FOR CREATIVE PEOPLE

TCREATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	1	1.0	1	1.0
DISAGREE	14	14.1	15	15.2
UNDECIDED	1	1.0	16	16.2
AGREE	59	59.6	75	75.8
STRONGLY AGREE	24	24.2	99	100.0

39:NO PLACE FOR ORIGINALITY IN MATH

TLTORIG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY DISAGRE	5	5.1	5	5.1
DISAGREE	39	39.8	44	44.9
UNDECIDED	10	10.2	54	55.1
AGREE	41	41.8	95	96.9
STRONGLY AGREE	3	3.1	98	100.0

40:NEW DISCOVERIES IN MATH BEING MADE

TNEWDSC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
DISAGREE	11	11.3	11	11.3
UNDECIDED	23	23.7	34	35.1
AGREE	51	52.6	85	87.6
STRONGLY AGREE	12	12.4	97	100.0

41:MATH HELPS TO THINK IN STRICT RULES

TRULES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
DISAGREE	1	1.0	1	1.0
UNDECIDED	2	2.0	3	3.0
AGREE	47	47.5	50	50.5
STRONGLY AGREE	49	49.5	99	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

42:ESTIMATING IS IMPORTANT MATH SKILL

TESTIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
DISAGREE	3	3.0	3	3.0
UNDECIDED	4	4.0	7	7.1
AGREE	68	68.7	75	75.8
STRONGLY AGREE	24	24.2	99	100.0

43:MANY WAYS TO SOLVE MATH PROBLEMS

TMNYWYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
DISAGREE	2	2.0	2	2.0
UNDECIDED	2	2.0	4	4.1
AGREE	49	50.0	53	54.1
STRONGLY AGREE	45	45.9	98	100.0

44:LEARNING MATH MOSTLY MEMORIZING

TMEMRZG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY DISAGRE	14	14.3	14	14.3
DISAGREE	65	66.3	79	80.6
UNDECIDED	6	6.1	85	86.7
AGREE	12	12.2	97	99.0
STRONGLY AGREE	1	1.0	98	100.0

45:MATH PROBLEMS SOLVED WITHOUT RULES

TWORULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	11	11.1	11	11.1
DISAGREE	61	61.6	72	72.7
UNDECIDED	13	13.1	85	85.9
AGREE	13	13.1	98	99.0
STRONGLY AGREE	1	1.0	99	100.0

46:TRIAL AND ERROR CAN OFTEN BE USED

TTAESLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	6	6.1	6	6.1
DISAGREE	25	25.3	31	31.3
UNDECIDED	6	6.1	37	37.4
AGREE	51	51.5	88	88.9
STRONGLY AGREE	11	11.1	99	100.0

47:ALWAYS RULES SOLVING MATH PROBLEMS

TALWRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	2	2.0	2	2.0
DISAGREE	21	21.2	23	23.2
UNDECIDED	6	6.1	29	29.3
AGREE	64	64.6	93	93.9
STRONGLY AGREE	6	6.1	99	100.0

48:NO NEW MATH DISCOVERIES LATELY

TNONEW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	9	9.1	9	9.1
DISAGREE	32	32.3	41	41.4
UNDECIDED	25	25.3	66	66.7
AGREE	29	29.3	95	96.0
STRONGLY AGREE	4	4.0	99	100.0

49:MATHEMATICS IS A SET OF RULES

TMTHRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	1	1.0	1	1.0
DISAGREE	9	9.1	10	10.1
UNDECIDED	11	11.1	21	21.2
AGREE	71	71.7	92	92.9
STRONGLY AGREE	7	7.1	99	100.0

50:MATH CAN BE SOLVED DIFFERENT WAYS

TDIFWAY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
STRONGLY DISAGRE	1	1.0	1	1.0
DISAGREE	2	2.0	3	3.0
UNDECIDED	2	2.0	5	5.1
AGREE	62	62.6	67	67.7
STRONGLY AGREE	32	32.3	99	100.0

THAILAND -- POPULATION A
TEACHER QUESTIONNAIRE

51:MATH HELPS ONE THINK LOGICALLY

TMTHLOG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
DISAGREE	1	1.0	1	1.0
AGREE	31	31.3	32	32.3
STRONGLY AGREE	67	67.7	99	100.0

THAA2

Classroom Process Questionnaire

FRACTIONS

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

1.USE OF..STUDENT TEXTBOOK

FSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
PRIMARY SOURCE	85	87.6	85	87.6
SECONDARY SOURCE	11	11.3	96	99.0
NOT USED	1	1.0	97	100.0

2.USE OF..OTHER PUBLISHED TEXT MATERIALS

FSOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
PRIMARY SOURCE	14	14.3	14	14.3
SECONDARY SOURCE	64	65.3	78	79.6
NOT USED	20	20.4	98	100.0

3.USE OF..LOCALLY PRODUCED TEXT MATERIAL

FSLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
PRIMARY SOURCE	4	4.1	4	4.1
SECONDARY SOURCE	41	41.8	45	45.9
NOT USED	53	54.1	98	100.0

4.USE OF..INDIVIDUALIZED MATERIALS

FSINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
PRIMARY SOURCE	2	2.0	2	2.0
SECONDARY SOURCE	4	4.1	6	6.1
NOT USED	92	93.9	98	100.0

5.USE OF..FILMS, FILMSTRIPS, MODELS

FSFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
SECONDARY SOURCE	4	4.1	4	4.1
NOT USED	94	95.9	98	100.0

6.USE OF..LABORATORY MATERIALS

FSLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
PRIMARY SOURCE	1	1.0	1	1.0
SECONDARY SOURCE	43	43.9	44	44.9
NOT USED	54	55.1	98	100.0

7.FRACTION TOPIC..DEVELOPING THE CONCEPT

FTFCNPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
TAUGHT AS NEW CO	28	28.9	28	28.9
REVIEWED THEN EX	52	53.6	80	82.5
REVIEWED ONLY	8	8.2	88	90.7
NOT TAUGHT, ASSU	2	2.1	90	92.8
NOT TAUGHT, NOT	7	7.2	97	100.0

8.FRACTION TOPIC..FINDING EQUIVALENTS

FTFEQU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	32	32.7	32	32.7
REVIEWED THEN EX	52	53.1	84	85.7
REVIEWED ONLY	14	14.3	98	100.0

9.FRACTION TOPIC..ADDING AND SUBTRACTING

FTFADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	33	33.7	33	33.7
REVIEWED THEN EX	55	56.1	88	89.8
REVIEWED ONLY	10	10.2	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

10.FRACTION TOPIC..MULTIPLYING

FTFMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	29	29.6	29	29.6
REVIEWED THEN EX	62	63.3	91	92.9
REVIEWED ONLY	7	7.1	98	100.0

11.FRACTION TOPIC..DIVIDING

FTFDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	34	34.7	34	34.7
REVIEWED THEN EX	55	56.1	89	90.8
REVIEWED ONLY	9	9.2	98	100.0

12.FRACTION TOPIC..ORDERING

FTFORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	43	43.9	43	43.9
REVIEWED THEN EX	42	42.9	85	86.7
REVIEWED ONLY	11	11.2	96	98.0
NOT TAUGHT, ASSU	2	2.0	98	100.0

13.DECIMAL TOPIC..DEVELOPING THE CONCEPT

FTDCNPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
TAUGHT AS NEW CO	39	40.6	39	40.6
REVIEWED THEN EX	40	41.7	79	82.3
REVIEWED ONLY	10	10.4	89	92.7
NOT TAUGHT, ASSU	2	2.1	91	94.8
NOT TAUGHT, NOT	5	5.2	96	100.0

14.DECIMAL TOPIC..CONVERT DECIMAL COMMON

FTDCNV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	47	48.0	47	48.0
REVIEWED THEN EX	46	46.9	93	94.9
REVIEWED ONLY	5	5.1	98	100.0

15.DECIMAL TOPIC..ADDING AND SUBTRACTING

FTDADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	23	23.5	23	23.5
REVIEWED THEN EX	65	66.3	88	89.8
REVIEWED ONLY	10	10.2	98	100.0

16.DECIMAL TOPIC..MULTIPLYING

FTDMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	26	26.5	26	26.5
REVIEWED THEN EX	62	63.3	88	89.8
REVIEWED ONLY	10	10.2	98	100.0

17.DECIMAL TOPIC..DIVIDING

FTDDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
TAUGHT AS NEW CO	34	34.7	34	34.7
REVIEWED THEN EX	56	57.1	90	91.8
REVIEWED ONLY	8	8.2	98	100.0

18.DECIMAL TOPIC..ORDERING

FTDORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
TAUGHT AS NEW CO	40	41.2	40	41.2
REVIEWED THEN EX	42	43.3	82	84.5
REVIEWED ONLY	15	15.5	97	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

19.EMPHASIZED..FRACTIONS OF REGIONS

FMFREGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	52	53.1	52	53.1
USED	45	45.9	97	99.0
NOT USED	1	1.0	98	100.0

20.IN TEXT..FRACTIONS OF REGIONS

FMFREGT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	77	79.4	77	79.4
NOT IN TEXT	20	20.6	97	100.0

21.KNOWN..FRACTIONS OF REGIONS

FMFREGK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	12	100.0	12	100.0

21.SYLLABUS..FRACTIONS OF REGIONS

FMFREGS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	7	87.5	7	87.5
NEGATIVE REASON	1	12.5	8	100.0

21.UNDERSTAND..FRACTIONS OF REGIONS

FMFREGU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	59	.	.	.
POSITIVE REASON	40	100.0	40	100.0

21.LIKED..FRACTIONS OF REGIONS

FMFREGL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	8	100.0	8	100.0

21.RELATED..FRACTIONS OF REGIONS

FMFREGR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	27	100.0	27	100.0

21.FUTURE..FRACTIONS OF REGIONS

FMFREGF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	16	100.0	16	100.0

21.HARD..FRACTIONS OF REGIONS

FMFREGH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	20	100.0	20	100.0

22.TEXT EMPHASIS..FRACTIONS OF REGIONS

FMFREGX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	9	90.0	9	90.0
NEGATIVE REASON	1	10.0	10	100.0

23.EMPHASIZED..FRACTIONS OF A COLLECTION

FMFCOLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	29	29.6	29	29.6
USED	40	40.8	69	70.4
NOT USED	29	29.6	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

24.IN TEXT..FRACTIONS OF A COLLECTION

FMFCOLT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	45	46.4	45	46.4
NOT IN TEXT	52	53.6	97	100.0

25.KNOWN..FRACTIONS OF A COLLECTION

FMFCOLK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	8	38.1	8	38.1
NEGATIVE REASON	13	61.9	21	100.0

25.SYLLABUS..FRACTIONS OF A COLLECTION

FMFCOLS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	6	50.0	6	50.0
NEGATIVE REASON	6	50.0	12	100.0

25.UNDERSTAND..FRACTIONS OF A COLLECTION

FMFCOLU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	18	62.1	18	62.1
NEGATIVE REASON	11	37.9	29	100.0

25.LIKED..FRACTIONS OF A COLLECTION

FMFCOLL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	4	57.1	4	57.1
NEGATIVE REASON	3	42.9	7	100.0

25.RELATED..FRACTIONS OF A COLLECTION

FMFCOLR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	13	86.7	13	86.7
NEGATIVE REASON	2	13.3	15	100.0

25.FUTURE..FRACTIONS OF A COLLECTION

FMFCOLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	16	94.1	16	94.1
NEGATIVE REASON	1	5.9	17	100.0

25.HARD..FRACTIONS OF A COLLECTION

FMFCOLH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

26.TEXT EMPHASIS..FRACTION OF COLLECTION

FMFCOLX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	9	42.9	9	42.9
NEGATIVE REASON	12	57.1	21	100.0

27.EMPHASIZED..FRACTIONS AS LINE COORDS

FMFLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	87	88.8	87	88.8
USED	11	11.2	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

28.IN TEXT..FRACTIONS AS LINE COORDS

FMFLINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	94	96.9	94	96.9
NOT IN TEXT	3	3.1	97	100.0

29.KNOWN..FRACTIONS AS LINE COORDS

FMFLINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	17	100.0	17	100.0

29.SYLLABUS..FRACTIONS AS LINE COORDS

FMFLINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	32	100.0	32	100.0

29.UNDERSTAND..FRACTIONS AS LINE COORDS

FMFLINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	46	.	.	.
POSITIVE REASON	52	98.1	52	98.1
NEGATIVE REASON	1	1.9	53	100.0

29.LIKED..FRACTIONS AS LINE COORDS

FMFLINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	7	100.0	7	100.0

29.RELATED..FRACTIONS AS LINE COORDS

FMFLINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
POSITIVE REASON	35	100.0	35	100.0

29.FUTURE..FRACTIONS AS LINE COORDS

FMFLINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	61	.	.	.
POSITIVE REASON	38	100.0	38	100.0

29.HARD..FRACTIONS AS LINE COORDS

FMFLINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	25	100.0	25	100.0

30.TEXT EMPHASIS..FRACT. AS LINE COORDS

FMFLINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
POSITIVE REASON	45	100.0	45	100.0

31.EMPHASIZED..FRACTIONS AS QUOTIENTS

FMFQUOE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	53	54.1	53	54.1
USED	44	44.9	97	99.0
NOT USED	1	1.0	98	100.0

32.IN TEXT..FRACTIONS AS QUOTIENTS

FMFQUOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
IN TEXT	75	78.1	75	78.1
NOT IN TEXT	21	21.9	96	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

33.KNOWN..FRACTIONS AS QUOTIENTS

FMFQUOK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	12	100.0	12	100.0

33.SYLLABUS..FRACTIONS AS QUOTIENTS

FMFQUOS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	11	100.0	11	100.0

33.UNDERSTAND..FRACTIONS AS QUOTIENTS

FMFQUOU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	29	100.0	29	100.0

33.LIKED..FRACTIONS AS QUOTIENTS

FMFQUOL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	6	100.0	6	100.0

33.RELATED..FRACTIONS AS QUOTIENTS

FMFQUOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	28	100.0	28	100.0

33.FUTURE..FRACTIONS AS QUOTIENTS

FMFQUOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	28	100.0	28	100.0

33.HARD..FRACTIONS AS QUOTIENTS

FMFQUOH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	17	100.0	17	100.0

34.TEXT EMPHASIS..FRACTIONS AS QUOTIENTS

FMFQUOX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	16	94.1	16	94.1
NEGATIVE REASON	1	5.9	17	100.0

35.EMPHASIZED..FRACTIONS AS DECIMALS

FMFDECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	59	60.2	59	60.2
USED	38	38.8	97	99.0
NOT USED	1	1.0	98	100.0

36.IN TEXT..FRACTIONS AS DECIMALS

FMFDECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	91	93.8	91	93.8
NOT IN TEXT	6	6.2	97	100.0

37.KNOWN..FRACTIONS AS DECIMALS

FMFDECK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	12	100.0	12	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC — SPECIFIC QUESTIONNAIRE

37.SYLLABUS..FRACTIONS AS DECIMALS

FMFDECS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	24	100.0	24	100.0

37.UNDERSTAND..FRACTIONS AS DECIMALS

FMFDECU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	24	92.3	24	92.3
NEGATIVE REASON	2	7.7	26	100.0

37.LIKED..FRACTIONS AS DECIMALS

FMFDECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	6	100.0	6	100.0

37.RELATED..FRACTIONS AS DECIMALS

FMFDECR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	27	100.0	27	100.0

37.FUTURE..FRACTIONS AS DECIMALS

FMFDECF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	31	100.0	31	100.0

37.HARD..FRACTIONS AS DECIMALS

FMFDECH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	13	92.9	13	92.9
NEGATIVE REASON	1	7.1	14	100.0

38.TEXT EMPHASIS..FRACTIONS AS DECIMALS

FMFDECX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	30	96.8	30	96.8
NEGATIVE REASON	1	3.2	31	100.0

39.EMPHASIZED..FRACTIONS AS REPEATED ADD

FMFREPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	27	27.6	27	27.6
USED	47	48.0	74	75.5
NOT USED	24	24.5	98	100.0

40.IN TEXT..FRACTIONS AS REPEATED ADD

FMFREPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	52	53.6	52	53.6
NOT IN TEXT	45	46.4	97	100.0

41.KNOWN..FRACTIONS AS REPEATED ADD

FMFREPK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	7	43.8	7	43.8
NEGATIVE REASON	9	56.3	16	100.0

41.SYLLABUS..FRACTIONS AS REPEATED ADD

FMFREPS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC — SPECIFIC QUESTIONNAIRE

41.UNDERSTAND..FRACTIONS AS REPEATED ADD

FMFREPU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	21	72.4	21	72.4
NEGATIVE REASON	8	27.6	29	100.0

41.LIKED..FRACTIONS AS REPEATED ADD

FMFREPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	8	80.0	8	80.0
NEGATIVE REASON	2	20.0	10	100.0

41.RELATED..FRACTIONS AS REPEATED ADD

FMFREPR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	14	82.4	14	82.4
NEGATIVE REASON	3	17.6	17	100.0

41.FUTURE..FRACTIONS AS REPEATED ADD

FMFREPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	11	91.7	11	91.7
NEGATIVE REASON	1	8.3	12	100.0

41.HARD..FRACTIONS AS REPEATED ADD

FMFREPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	15	88.2	15	88.2
NEGATIVE REASON	2	11.8	17	100.0

42.TEXT EMPHASIS..FRACT. AS REPEATED ADD

FMFREPX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	12	42.9	12	42.9
NEGATIVE REASON	16	57.1	28	100.0

43.EMPHASIZED..FRACTIONS AS RATIOS

FMFRATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	18	18.4	18	18.4
USED	38	38.8	56	57.1
NOT USED	42	42.9	98	100.0

44.IN TEXT..FRACTIONS AS RATIOS

FMFRATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	42	43.3	42	43.3
NOT IN TEXT	55	56.7	97	100.0

45.KNOWN..FRACTIONS AS RATIOS

FMFRATK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	4	22.2	4	22.2
NEGATIVE REASON	14	77.8	18	100.0

45.SYLLABUS..FRACTIONS AS RATIOS

FMFRATS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	9	52.9	9	52.9
NEGATIVE REASON	8	47.1	17	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

45.UNDERSTAND..FRACTIONS AS RATIOS

FMFRATU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	79			
POSITIVE REASON	10	50.0	10	50.0
NEGATIVE REASON	10	50.0	20	100.0

45.LIKED..FRACTIONS AS RATIOS

FMFRATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92			
POSITIVE REASON	3	42.9	3	42.9
NEGATIVE REASON	4	57.1	7	100.0

45.RELATED..FRACTIONS AS RATIOS

FMFRATR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	89			
POSITIVE REASON	6	60.0	6	60.0
NEGATIVE REASON	4	40.0	10	100.0

45.FUTURE..FRACTIONS AS RATIOS

FMFRATF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	88			
POSITIVE REASON	10	90.9	10	90.9
NEGATIVE REASON	1	9.1	11	100.0

45.HARD..FRACTIONS AS RATIOS

FMFRATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90			
POSITIVE REASON	6	66.7	6	66.7
NEGATIVE REASON	3	33.3	9	100.0

46.TEXT EMPHASIS..FRACTIONS AS RATIOS

FMFRATX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	65			
POSITIVE REASON	7	20.6	7	20.6
NEGATIVE REASON	27	79.4	34	100.0

47.EMPHASIZED..FRACTIONS AS MEASUREMENTS

FMFMSRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	25	25.5	25	25.5
USED	49	50.0	74	75.5
NOT USED	24	24.5	98	100.0

48.IN TEXT..FRACTIONS AS MEASUREMENTS

FMFMSRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2			
IN TEXT	51	52.6	51	52.6
NOT IN TEXT	46	47.4	97	100.0

49.KNOWN..FRACTIONS AS MEASUREMENTS

FMFMSRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90			
POSITIVE REASON	4	44.4	4	44.4
NEGATIVE REASON	5	55.6	9	100.0

49.SYLLABUS..FRACTIONS AS MEASUREMENTS

FMFMSRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	84			
POSITIVE REASON	12	80.0	12	80.0
NEGATIVE REASON	3	20.0	15	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

49.UNDERSTAND..FRACTIONS AS MEASUREMENTS

FMFMSRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	76			
POSITIVE REASON	14	60.9	14	60.9
NEGATIVE REASON	9	39.1	23	100.0

49.LIKED..FRACTIONS AS MEASUREMENTS

FMFMSRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	95			
POSITIVE REASON	3	75.0	3	75.0
NEGATIVE REASON	1	25.0	4	100.0

49.RELATED..FRACTIONS AS MEASUREMENTS

FMFMSRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	86			
POSITIVE REASON	11	84.6	11	84.6
NEGATIVE REASON	2	15.4	13	100.0

49.FUTURE..FRACTIONS AS MEASUREMENTS

FMFMSRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	86			
POSITIVE REASON	13	100.0	13	100.0

49.HARD..FRACTIONS AS MEASUREMENTS

FMFMSRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	88			
POSITIVE REASON	6	54.5	6	54.5
NEGATIVE REASON	5	45.5	11	100.0

50.TEXT EMPHASIS..FRACT. AS MEASUREMENTS

FMFMSRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	72			
POSITIVE REASON	11	40.7	11	40.7
NEGATIVE REASON	16	59.3	27	100.0

51.EMPHASIZED..FRACTIONS AS OPERATORS

FMFOPRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2			
EMPHASIZED	7	7.2	7	7.2
USED	17	17.5	24	24.7
NOT USED	73	75.3	97	100.0

52.IN TEXT..FRACTIONS AS OPERATORS

FMFOPRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2			
IN TEXT	10	10.3	10	10.3
NOT IN TEXT	87	89.7	97	100.0

53.KNOWN..FRACTIONS AS OPERATORS

FMFOPRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	75			
POSITIVE REASON	2	8.3	2	8.3
NEGATIVE REASON	22	91.7	24	100.0

53.SYLLABUS..FRACTIONS AS OPERATORS

FMFOPRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	77			
POSITIVE REASON	2	9.1	2	9.1
NEGATIVE REASON	20	90.9	22	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

53.UNDERSTAND..FRACTIONS AS OPERATORS

FMFOPRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	65	.	.	.
POSITIVE REASON	4	11.8	4	11.8
NEGATIVE REASON	30	88.2	34	100.0

53.LIKED..FRACTIONS AS OPERATORS

FMFOPRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	1	16.7	1	16.7
NEGATIVE REASON	5	83.3	6	100.0

53.RELATED..FRACTIONS AS OPERATORS

FMFOPRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	3	23.1	3	23.1
NEGATIVE REASON	10	76.9	13	100.0

53.FUTURE..FRACTIONS AS OPERATORS

FMFOPRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	5	50.0	5	50.0
NEGATIVE REASON	5	50.0	10	100.0

53.HARD..FRACTIONS AS OPERATORS

FMFOPRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	1	5.3	1	5.3
NEGATIVE REASON	18	94.7	19	100.0

54.TEXT EMPHASIS..FRACTIONS AS OPERATORS

FMFOPRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
POSITIVE REASON	3	6.7	3	6.7
NEGATIVE REASON	42	93.3	45	100.0

55.EMPHASIZED..FRACTIONS AS COMPARISONS

FMFCMPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	42	42.9	42	42.9
USED	47	48.0	89	90.8
NOT USED	9	9.2	98	100.0

56.IN TEXT..FRACTIONS AS COMPARISONS

FMFCMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	64	66.0	64	66.0
NOT IN TEXT	33	34.0	97	100.0

57.KNOWN..FRACTIONS AS COMPARISONS

FMFCMPK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	11	73.3	11	73.3
NEGATIVE REASON	4	26.7	15	100.0

57.SYLLABUS..FRACTIONS AS COMPARISONS

FMFCMPS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	12	80.0	12	80.0
NEGATIVE REASON	3	20.0	15	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

57.UNDERSTAND..FRACTIONS AS COMPARISONS

FMFCMPU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	65	.	.	.
POSITIVE REASON	31	91.2	31	91.2
NEGATIVE REASON	3	8.8	34	100.0

57.LIKED..FRACTIONS AS COMPARISONS

FMFCMPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	5	100.0	5	100.0

57.RELATED..FRACTIONS AS COMPARISONS

FMFCMPR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	17	94.4	17	94.4
NEGATIVE REASON	1	5.6	18	100.0

57.FUTURE..FRACTIONS AS COMPARISONS

FMFCMPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	21	100.0	21	100.0

57.HARD..FRACTIONS AS COMPARISONS

FMFCMPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	17	94.4	17	94.4
NEGATIVE REASON	1	5.6	18	100.0

58.TEXT EMPHASIS..FRACT. AS COMPARISONS

FMFCMPX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	11	73.3	11	73.3
NEGATIVE REASON	4	26.7	15	100.0

59.FRACT ADD INTERP..UNION OF REGIONS

FMAFREG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	22	22.4	22	22.4
USED	35	35.7	57	58.2
NOT USED	41	41.8	98	100.0

60.FRACT ADD INTERP..COMBINE COLLECTION

FMAFCOL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	9	9.2	9	9.2
USED	28	28.6	37	37.8
NOT USED	61	62.2	98	100.0

61.FRACT ADD INTERP..ON THE NUMBER LINE

FMAFLIN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
EMPHASIZED	31	32.0	31	32.0
USED	33	34.0	64	66.0
NOT USED	33	34.0	97	100.0

62.FRACT ADD INTERP..SUM OF QUOTIENTS

FMAFQUO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	14	14.3	14	14.3
USED	22	22.4	36	36.7
NOT USED	62	63.3	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

63.FRACT ADD INTERP..SUM OF TWO DECIMALS

FMAFDEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	21	21.4	21	21.4
USED	52	53.1	73	74.5
NOT USED	25	25.5	98	100.0

64.FRACT ADD INTERP..REPEATED ADD UNITS

FMAFREP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	14	14.3	14	14.3
USED	37	37.8	51	52.0
NOT USED	47	48.0	98	100.0

65.FRACT ADD INTERP..COMBINE MEASUREMENT

FMAFMSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	8	8.2	8	8.2
USED	38	38.8	46	46.9
NOT USED	52	53.1	98	100.0

66.FRACT ADD INTERP..JOIN TWO SEGMENTS

FMAFSEG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	21	21.4	21	21.4
USED	42	42.9	63	64.3
NOT USED	35	35.7	98	100.0

67.FRACT ADD PROC..LCD HORIZONTAL FORM

FMPALDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	65	66.3	65	66.3
USED	24	24.5	89	90.8
NOT USED	9	9.2	98	100.0

68.FRACT ADD PROC..LCD VERTICAL FORM

FMPALDV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	7	7.1	7	7.1
USED	26	26.5	33	33.7
NOT USED	65	66.3	98	100.0

69.FRACT ADD PROC..USING FORMULA

FMPAFOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	49	50.0	49	50.0
USED	26	26.5	75	76.5
NOT USED	23	23.5	98	100.0

70.FRACT ADD PROC..CD HORIZONTAL FORM

FMPACDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	37	37.8	37	37.8
USED	42	42.9	79	80.6
NOT USED	19	19.4	98	100.0

71.FRACT ADD PROC..CD VERTICAL FORM

FMPACDV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	5	5.1	5	5.1
USED	23	23.5	28	28.6
NOT USED	70	71.4	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

72.FRACT ADD PROC..DECIMALS

FMPADEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	11	11.2	11	11.2
USED	41	41.8	52	53.1
NOT USED	46	46.9	98	100.0

73.SYMBOLIC NUMERIC IN ADDING FRACTIONS

FMAFSYM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2			
SPECIFIC CASE	11	11.3	11	11.3
EXAMPLE TO PROC	76	78.4	87	89.7
PROC TO EXAMPLE	10	10.3	97	100.0

74.EMPHASIZED..DECIMAL AS LINE COORD

FMDLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	1			
EMPHASIZED	25	25.5	25	25.5
USED	32	32.7	57	58.2
NOT USED	41	41.8	98	100.0

75.IN TEXT..DECIMAL AS LINE COORD

FMDLINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2			
IN TEXT	39	40.2	39	40.2
NOT IN TEXT	58	59.8	97	100.0

76.KNOWN..DECIMAL AS LINE COORD

FMDLINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	83			
POSITIVE REASON	6	37.5	6	37.5
NEGATIVE REASON	10	62.5	16	100.0

76.SYLLABUS..DECIMAL AS LINE COORD

FMDLINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	84			
POSITIVE REASON	9	60.0	9	60.0
NEGATIVE REASON	6	40.0	15	100.0

76.UNDERSTAND..DECIMAL AS LINE COORD

FMDLINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	70			
POSITIVE REASON	15	51.7	15	51.7
NEGATIVE REASON	14	48.3	29	100.0

76.LIKED..DECIMAL AS LINE COORD

FMDLINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90			
POSITIVE REASON	6	66.7	6	66.7
NEGATIVE REASON	3	33.3	9	100.0

76.RELATED..DECIMAL AS LINE COORD

FMDLINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	80			
POSITIVE REASON	15	78.9	15	78.9
NEGATIVE REASON	4	21.1	19	100.0

76.FUTURE..DECIMAL AS LINE COORD

FMDLINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	86			
POSITIVE REASON	12	92.3	12	92.3
NEGATIVE REASON	1	7.7	13	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

76.HARD..DECIMAL AS LINE COORD

FMDLINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	11	52.4	11	52.4
NEGATIVE REASON	10	47.6	21	100.0

77.TEXT EMPHASIS..DECIMAL AS LINE COORD

FMDLINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	10	31.3	10	31.3
NEGATIVE REASON	22	68.8	32	100.0

78.EMPHASIZED..DECIMAL AS FRACTION

FMDFRCE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	87	88.8	87	88.8
USED	9	9.2	96	98.0
NOT USED	2	2.0	98	100.0

79.IN TEXT..DECIMAL AS FRACTION

FMDFRCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	90	92.8	90	92.8
NOT IN TEXT	7	7.2	97	100.0

80.KNOWN..DECIMAL AS FRACTION

FMDFRCK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	20	100.0	20	100.0

80.SYLLABUS..DECIMAL AS FRACTION

FMDFRCS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	65	.	.	.
POSITIVE REASON	34	100.0	34	100.0

80.UNDERSTAND..DECIMAL AS FRACTION

FMDFRCU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	44	.	.	.
POSITIVE REASON	55	100.0	55	100.0

80.LIKED..DECIMAL AS FRACTION

FMDFRCL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	15	100.0	15	100.0

80.RELATED..DECIMAL AS FRACTION

FMDFRCR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	50	.	.	.
POSITIVE REASON	49	100.0	49	100.0

80.FUTURE..DECIMAL AS FRACTION

FMDFRCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	57	.	.	.
POSITIVE REASON	42	100.0	42	100.0

80.HARD..DECIMAL AS FRACTION

FMDFRCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	69	.	.	.
POSITIVE REASON	30	100.0	30	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

81.TEXT EMPHASIS..DECIMAL AS FRACTION

FMDFRCX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
POSITIVE REASON	44	97.8	44	97.8
NEGATIVE REASON	1	2.2	45	100.0

82.EMPHASIZED..DECIMAL OF A REGION

FMDREGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	7	7.1	7	7.1
USED	30	30.6	37	37.8
NOT USED	61	62.2	98	100.0

83.IN TEXT..DECIMAL OF A REGION

FMDREGT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
IN TEXT	18	18.8	18	18.8
NOT IN TEXT	78	81.3	96	100.0

84.KNOWN..DECIMAL OF A REGION

FMDREGK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	2	9.1	2	9.1
NEGATIVE REASON	20	90.9	22	100.0

84.SYLLABUS..DECIMAL OF A REGION

FMDREGS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	2	15.4	2	15.4
NEGATIVE REASON	11	84.6	13	100.0

84.UNDERSTAND..DECIMAL OF A REGION

FMDREGU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	3	14.3	3	14.3
NEGATIVE REASON	18	85.7	21	100.0

84.LIKED..DECIMAL OF A REGION

FMDREGL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	2	50.0	2	50.0
NEGATIVE REASON	2	50.0	4	100.0

84.RELATED..DECIMAL OF A REGION

FMDREGR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	5	71.4	5	71.4
NEGATIVE REASON	2	28.6	7	100.0

84.FUTURE..DECIMAL OF A REGION

FMDREGF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	3	50.0	3	50.0
NEGATIVE REASON	3	50.0	6	100.0

84.HARD..DECIMAL OF A REGION

FMDREGH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	2	10.0	2	10.0
NEGATIVE REASON	18	90.0	20	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

85.TEXT EMPHASIS..DECIMAL OF A REGION

FMDREGX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	63	.	.	.
POSITIVE REASON	3	8.3	3	8.3
NEGATIVE REASON	33	91.7	36	100.0

86.EMPHASIZED..DECIMAL AS PLACE VALUE

FMDPLVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	39	39.8	39	39.8
USED	28	28.6	67	68.4
NOT USED	31	31.6	98	100.0

87.IN TEXT..DECIMAL AS PLACE VALUE

FMDPLVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	60	61.9	60	61.9
NOT IN TEXT	37	38.1	97	100.0

88.KNOWN..DECIMAL AS PLACE VALUE

FMDPLVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	4	28.6	4	28.6
NEGATIVE REASON	10	71.4	14	100.0

88.SYLLABUS..DECIMAL AS PLACE VALUE

FMDPLVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	9	52.9	9	52.9
NEGATIVE REASON	8	47.1	17	100.0

88.UNDERSTAND..DECIMAL AS PLACE VALUE

FMDPLVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	15	65.2	15	65.2
NEGATIVE REASON	8	34.8	23	100.0

88.LIKED..DECIMAL AS PLACE VALUE

FMDPLVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	6	100.0	6	100.0

88.RELATED..DECIMAL AS PLACE VALUE

FMDPLVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	17	81.0	17	81.0
NEGATIVE REASON	4	19.0	21	100.0

88.FUTURE..DECIMAL AS PLACE VALUE

FMDPLVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	20	100.0	20	100.0

88.HARD..DECIMAL AS PLACE VALUE

FMDPLVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	11	84.6	11	84.6
NEGATIVE REASON	2	15.4	13	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

89.TEXT EMPHASIS..DECIMAL AS PLACE VALUE

FMDPLVX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	66	.	.	.
POSITIVE REASON	17	51.5	17	51.5
NEGATIVE REASON	16	48.5	33	100.0

90.EMPHASIZED..DECIMAL AS A SERIES

FMDSERE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	60	61.2	60	61.2
USED	34	34.7	94	95.9
NOT USED	4	4.1	98	100.0

91.IN TEXT..DECIMAL AS A SERIES

FMDSERT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	80	82.5	80	82.5
NOT IN TEXT	17	17.5	97	100.0

92.KNOWN..DECIMAL AS A SERIES

FMDSERK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	16	88.9	16	88.9
NEGATIVE REASON	2	11.1	18	100.0

92.SYLLABUS..DECIMAL AS A SERIES

FMDSERS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	24	96.0	24	96.0
NEGATIVE REASON	1	4.0	25	100.0

92.UNDERSTAND..DECIMAL AS A SERIES

FMDSERU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	66	.	.	.
POSITIVE REASON	32	97.0	32	97.0
NEGATIVE REASON	1	3.0	33	100.0

92.LIKED..DECIMAL AS A SERIES

FMDSERL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	11	100.0	11	100.0

92.RELATED..DECIMAL AS A SERIES

FMDSERR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	29	100.0	29	100.0

92.FUTURE..DECIMAL AS A SERIES

FMDSERF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	29	100.0	29	100.0

92.HARD..DECIMAL AS A SERIES

FMDSERH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	15	100.0	15	100.0

93.TEXT EMPHASIS..DECIMAL AS A SERIES

FMDSERX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
POSITIVE REASON	34	97.1	34	97.1
NEGATIVE REASON	1	2.9	35	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

94.EMPHASIZED..DECIMAL AS A COMPARISON

FMDCMPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	15	15.3	15	15.3
USED	43	43.9	58	59.2
NOT USED	40	40.8	98	100.0

95.IN TEXT..DECIMAL AS A COMPARISON

FMDCMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
IN TEXT	31	32.0	31	32.0
NOT IN TEXT	66	68.0	97	100.0

96.KNOWN..DECIMAL AS A COMPARISON

FMDCMPK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	2	12.5	2	12.5
NEGATIVE REASON	14	87.5	16	100.0

96.SYLLABUS..DECIMAL AS A COMPARISON

FMDCMPS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	5	55.6	5	55.6
NEGATIVE REASON	4	44.4	9	100.0

96.UNDERSTAND..DECIMAL AS A COMPARISON

FMDCMPU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	6	40.0	6	40.0
NEGATIVE REASON	9	60.0	15	100.0

96.LIKED..DECIMAL AS A COMPARISON

FMDCMPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	5	100.0	5	100.0

96.RELATED..DECIMAL AS A COMPARISON

FMDCMPR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	5	83.3	5	83.3
NEGATIVE REASON	1	16.7	6	100.0

96.FUTURE..DECIMAL AS A COMPARISON

FMDCMPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	8	80.0	8	80.0
NEGATIVE REASON	2	20.0	10	100.0

96.HARD..DECIMAL AS A COMPARISON

FMDCMPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	2	20.0	2	20.0
NEGATIVE REASON	8	80.0	10	100.0

97.TEXT EMPHASIS..DECIMAL AS COMPARISON

FMDCMPX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	7	25.0	7	25.0
NEGATIVE REASON	21	75.0	28	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

98.DECIMAL OP..RELATE TO FRACTION

FMODFRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	49	50.0	49	50.0
USED	40	40.8	89	90.8
NOT USED	9	9.2	98	100.0

99.DECIMAL OP..RELATE TO WHOLE NUMBERS

FMODWHL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	77	78.6	77	78.6
USED	18	18.4	95	96.9
NOT USED	3	3.1	98	100.0

100.DECIMAL OP..CONCRETE MATERIALS

FMODMAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
EMPHASIZED	2	2.0	2	2.0
USED	13	13.3	15	15.3
NOT USED	83	84.7	98	100.0

101.AVERAGE LENGTH MATH PERIOD MINUTES

FPSIZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
0 THRU 30	19	19.4	19	19.4
31 THUR 40	32	32.7	51	52.0
41 THRU 50	47	48.0	98	100.0

102.FRACTION TIME..TOTAL CLASS PERIODS

FPFTOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
1 THRU 10	24	24.5	24	24.5
11 THRU 20	70	71.4	94	95.9
21 THRU 30	2	2.0	96	98.0
31 THRU 998	2	2.0	98	100.0

103.FRACTION TIME..DEVELOPING CONCEPT

FPFCNPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NONE	5	5.2	5	5.2
1 THRU 5	91	94.8	96	100.0

104.FRACTION TIME..FINDING EQUIVALENTS

FPFEQU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	96	99.0	97	100.0

105.FRACTION TIME..ADDING & SUBTRACTING

FPFADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
1 THRU 5	95	97.9	95	97.9
6 THRU 10	2	2.1	97	100.0

106.FRACTION TIME..MULTIPLYING

FPFMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	95	97.9	96	99.0
6 THRU 10	1	1.0	97	100.0

107.FRACTION TIME..DIVIDING

FPFDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	96	99.0	97	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

108.FRACTION TIME..ORDERING

FPFORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	3	3.1	3	3.1
1 THRU 5	94	96.9	97	100.0

109.FRACTION TIME..APPLICATIONS PROBLEMS

FPFPROB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	91	93.8	92	94.8
6 THRU 10	5	5.2	97	100.0

110.DECIMAL TIME..TOTAL CLASS PERIODS

FPDTOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
1 THRU 10	64	65.3	64	65.3
11 THRU 20	31	31.6	95	96.9
21 THRU 30	1	1.0	96	98.0
31 THRU 998	2	2.0	98	100.0

111.DECIMAL TIME..DEVELOPING THE CONCEPT

FPDCNPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	6	6.2	6	6.2
1 THRU 5	91	93.8	97	100.0

112.DECIMAL TIME..CONVERT DECIMAL COMMON

FPDCNV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
1 THRU 5	97	100.0	97	100.0

113.DECIMAL TIME..ADDING AND SUBTRACTING

FPDADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	96	99.0	97	100.0

114.DECIMAL TIME..MULTIPLYING

FPDMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	96	99.0	97	100.0

115.DECIMAL TIME..DIVIDING

FPDDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
1 THRU 5	96	99.0	96	99.0
6 THRU 10	1	1.0	97	100.0

116.DECIMAL TIME..ORDERING

FPDORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	5	5.2	5	5.2
1 THRU 5	91	93.8	96	99.0
6 THRU 10	1	1.0	97	100.0

117.DECIMAL TIME..APPLICATIONS PROBLEMS

FPDPROB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 THRU 5	94	96.9	95	97.9
6 THRU 10	2	2.1	97	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

118.OPINION..TEACH FRACT COMPUTATION

FOFCOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	49	50.0	49	50.0
AGREE	49	50.0	98	100.0

119.OPINION..SKILL SHOWS UNDERSTANDING

FOSKILL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
STRONGLY AGREE	26	26.8	26	26.8
AGREE	58	59.8	84	86.6
UNDECIDED	8	8.2	92	94.8
DISAGREE	5	5.2	97	100.0

120.OPINION..DELAY COMMON FRACTIONS

FOFDEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	7	7.1	7	7.1
AGREE	31	31.6	38	38.8
UNDECIDED	6	6.1	44	44.9
DISAGREE	46	46.9	90	91.8
STRONGLY DISAGRE	8	8.2	98	100.0

121.OPINION..COMPUTE WITH CALCULATOR

FOCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	1	1.0	1	1.0
AGREE	8	8.2	9	9.2
UNDECIDED	12	12.2	21	21.4
DISAGREE	54	55.1	75	76.5
STRONGLY DISAGRE	23	23.5	98	100.0

122.OPINION..TEACH SMALL DENOMINATORS

FOFSMAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	5	5.1	5	5.1
AGREE	15	15.3	20	20.4
UNDECIDED	5	5.1	25	25.5
DISAGREE	60	61.2	85	86.7
STRONGLY DISAGRE	13	13.3	98	100.0

123.OPINION..IMPORTANT DRILL COMPUTATION

FODRILL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	23	23.5	23	23.5
AGREE	60	61.2	83	84.7
UNDECIDED	3	3.1	86	87.8
DISAGREE	11	11.2	97	99.0
STRONGLY DISAGRE	1	1.0	98	100.0

124.OPINION..RULES SHOULD BE MEMORIZED

FORULES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	15	15.3	15	15.3
AGREE	47	48.0	62	63.3
UNDECIDED	10	10.2	72	73.5
DISAGREE	21	21.4	93	94.9
STRONGLY DISAGRE	5	5.1	98	100.0

125.OPINION..EMPHASIZE ON APPLICATONS

FOAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	36	36.7	36	36.7
AGREE	55	56.1	91	92.9
UNDECIDED	4	4.1	95	96.9
DISAGREE	3	3.1	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC — SPECIFIC QUESTIONNAIRE

126.OPINION..EMPHASIZE PROBLEM SOLVING

FOPROB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	27	27.6	27	27.6
AGREE	43	43.9	70	71.4
UNDECIDED	8	8.2	78	79.6
DISAGREE	19	19.4	97	99.0
STRONGLY DISAGRE	1	1.0	98	100.0

127.OPINION..EMPH. STRUCTURAL PROPERTIES

FOFSTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	15	15.3	15	15.3
AGREE	53	54.1	68	69.4
UNDECIDED	8	8.2	76	77.6
DISAGREE	22	22.4	98	100.0

128.OPINION..ESTIMATION ETC. IMPORTANT

FOESTIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	7	7.1	7	7.1
AGREE	33	33.7	40	40.8
UNDECIDED	25	25.5	65	66.3
DISAGREE	29	29.6	94	95.9
STRONGLY DISAGRE	4	4.1	98	100.0

129.OPINION..DECIMALS MORE THAN COMMON

FODEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
AGREE	11	11.2	11	11.2
UNDECIDED	17	17.3	28	28.6
DISAGREE	68	69.4	96	98.0
STRONGLY DISAGRE	2	2.0	98	100.0

130.OPINION..EMPHASIS MENTAL CALCULATION

FOMENT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	6	6.1	6	6.1
AGREE	31	31.6	37	37.8
UNDECIDED	15	15.3	52	53.1
DISAGREE	45	45.9	97	99.0
STRONGLY DISAGRE	1	1.0	98	100.0

131.OPINION..FRACTIONS BEFORE DECIMAL

FOOCDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	34	34.7	34	34.7
AGREE	55	56.1	89	90.8
UNDECIDED	8	8.2	97	99.0
DISAGREE	1	1.0	98	100.0

132.OPINION..ADD BEFORE MULTIPLY COMMON

FOOAMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	37	37.8	37	37.8
AGREE	49	50.0	86	87.8
UNDECIDED	8	8.2	94	95.9
DISAGREE	4	4.1	98	100.0

133.OPINION..KNOW LEAST COMMON MULTIPLE

FOLCM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	36	36.7	36	36.7
AGREE	56	57.1	92	93.9
UNDECIDED	2	2.0	94	95.9
DISAGREE	4	4.1	98	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
FRACTIONS TOPIC -- SPECIFIC QUESTIONNAIRE

134.OPINION..KNOW GREATEST COMMON FACTOR

FOGCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1	.	.	.
STRONGLY AGREE	18	18.4	18	18.4
AGREE	55	56.1	73	74.5
UNDECIDED	12	12.2	85	86.7
DISAGREE	13	13.3	98	100.0

135.OPINION..REDUCE FRACTION WITH GCF

FOFRDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
STRONGLY AGREE	9	9.4	9	9.4
AGREE	44	45.8	53	55.2
UNDECIDED	9	9.4	62	64.6
DISAGREE	32	33.3	94	97.9
STRONGLY DISAGRE	2	2.1	96	100.0

Classroom Process Questionnaire

RATIO - PROPROTION - PERCENT

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
RATIO-PROPORTION-PERCENT TOPIC-SPECIFIC QUESTIONNAIRE

1.USE OF..STUDENT TEXTBOOK

RSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
PRIMARY SOURCE	87	90.6	87	90.6
SECONDARY SOURCE	7	7.3	94	97.9
NOT USED	2	2.1	96	100.0

2.USE OF..OTHER PUBLISHED TEXT MATERIALS

RSOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
PRIMARY SOURCE	11	11.5	11	11.5
SECONDARY SOURCE	58	60.4	69	71.9
NOT USED	27	28.1	96	100.0

3.USE OF..LOCALLY PRODUCED TEXT MATERIAL

RSLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
PRIMARY SOURCE	7	7.3	7	7.3
SECONDARY SOURCE	40	41.7	47	49.0
NOT USED	49	51.0	96	100.0

4.USE OF..INDIVIDUALIZED MATERIALS

RSINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
SECONDARY SOURCE	3	3.1	3	3.1
NOT USED	93	96.9	96	100.0

5.USE OF..FILMS, FILMSTRIPS, MODELS

RSFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
SECONDARY SOURCE	3	3.1	3	3.1
NOT USED	93	96.9	96	100.0

6.USE OF..LABORATORY MATERIALS

RSLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
SECONDARY SOURCE	28	29.2	28	29.2
NOT USED	68	70.8	96	100.0

7.TOPIC..THE CONCEPT OF RATIO

RTRATIO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	38	39.6	38	39.6
REVIEWED THEN EX	52	54.2	90	93.7
REVIEWED ONLY	6	6.3	96	100.0

8.TOPIC..THE CONCEPT OF PROPORTION

RTPROP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	34	35.4	34	35.4
REVIEWED THEN EX	54	56.3	88	91.7
REVIEWED ONLY	7	7.3	95	99.0
NOT TAUGHT, ASSU	1	1.0	96	100.0

9.TOPIC..SOLVING PROPORTIONAL EQUATIONS

RTPREQU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	52	54.2	52	54.2
REVIEWED THEN EX	36	37.5	88	91.7
REVIEWED ONLY	8	8.3	96	100.0

10.TOPIC..THE CONCEPT OF PERCENT

RTPCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	28	29.2	28	29.2
REVIEWED THEN EX	62	64.6	90	93.7
REVIEWED ONLY	6	6.3	96	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
RATIO-PROPORTION-PERCENT TOPIC-SPECIFIC QUESTIONNAIRE

11.TOPIC..COMPUTING PERCENTS

RTCOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	51	53.1	51	53.1
REVIEWED THEN EX	40	41.7	91	94.8
REVIEWED ONLY	4	4.2	95	99.0
NOT TAUGHT, ASSU	1	1.0	96	100.0

12.TOPIC..PCTS TO COMMON FRACTIONS

RTCHGPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	34	35.4	34	35.4
REVIEWED THEN EX	55	57.3	89	92.7
REVIEWED ONLY	7	7.3	96	100.0

13.TOPIC..PCTS TO DECIMAL FRACTIONS

RTCHGPD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	28	29.2	28	29.2
REVIEWED THEN EX	57	59.4	85	88.5
REVIEWED ONLY	9	9.4	94	97.9
NOT TAUGHT, ASSU	1	1.0	95	99.0
NOT TAUGHT, NOT	1	1.0	96	100.0

14.TOPIC..COMMON FRACTIONS TO PCTS

RTCHGFP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	36	37.5	36	37.5
REVIEWED THEN EX	52	54.2	88	91.7
REVIEWED ONLY	7	7.3	95	99.0
NOT TAUGHT, NOT	1	1.0	96	100.0

15.TOPIC..DECIMAL FRACTIONS TO PCTS

RTCHGDP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	33	34.4	33	34.4
REVIEWED THEN EX	50	52.1	83	86.5
REVIEWED ONLY	12	12.5	95	99.0
NOT TAUGHT, NOT	1	1.0	96	100.0

16.TOPIC..PERCENTS GREATER THAN 100

RTBIGP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	51	53.1	51	53.1
REVIEWED THEN EX	23	24.0	74	77.1
REVIEWED ONLY	13	13.5	87	90.6
NOT TAUGHT, NOT	9	9.4	96	100.0

17.TOPIC..PERCENTS LESS THAN 1

RTSMAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
TAUGHT AS NEW CO	43	44.8	43	44.8
REVIEWED THEN EX	25	26.0	68	70.8
REVIEWED ONLY	13	13.5	81	84.4
NOT TAUGHT, ASSU	1	1.0	82	85.4
NOT TAUGHT, NOT	14	14.6	96	100.0

18.INTERPRETATION..RATIO AS A RATE

RMRRATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	58	60.4	58	60.4
USED	35	36.5	93	96.9
NOT USED	3	3.1	96	100.0

19.INTERPRETATION..RATIO AS A COMPARISON

RMRCOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
EMPHASIZED	63	65.6	63	65.6
USED	32	33.3	95	99.0
NOT USED	1	1.0	96	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
RATIO-PROPORTION-PERCENT TOPIC-SPECIFIC QUESTIONNAIRE

20.INTERPRETATION..RATIO AS A FRACTION

RMRFRAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	69	71.9	69	71.9
USED	27	28.1	96	100.0

21.INTERPRETATION..RATIO AS A QUOTIENT

RMRQUOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	39	40.6	39	40.6
USED	53	55.2	92	95.8
NOT USED	4	4.2	96	100.0

22.INTERPRETATION..PERCENT AS A FRACTION

RMPFRAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	83	87.4	83	87.4
USED	12	12.6	95	100.0

23.INTERPRETATION..PERCENT AS A RATIO

RMPRATO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	49	51.6	49	51.6
USED	42	44.2	91	95.8
NOT USED	4	4.2	95	100.0

24.EMPHASIZED..PROPS AS EQUIV RATIOS

RMPEQRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	44	45.8	44	45.8
USED	49	51.0	93	96.9
NOT USED	3	3.1	96	100.0

25.IN TEXT..PROPS AS EQUIV RATIOS

RMPEQRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
IN TEXT	72	76.6	72	76.6
NOT IN TEXT	22	23.4	94	100.0

26.KNOWN..PROPS AS EQUIV RATIOS

RMPEQRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	12	100.0	12	100.0

26.SYLLABUS..PROPS AS EQUIV RATIOS

RMPEQRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	18	94.7	18	94.7
NEGATIVE REASON	1	5.3	19	100.0

26.UNDERSTAND..PROPS AS EQUIV RATIOS

RMPEQRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	26	92.9	26	92.9
NEGATIVE REASON	2	7.1	28	100.0

26.LIKED..PROPS AS EQUIV RATIOS

RMPEQRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	9	100.0	9	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
RATIO-PROPORTION-PERCENT TOPIC-SPECIFIC QUESTIONNAIRE

26.RELATED..PROPS AS EQUIV RATIOS

RMPEQRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	26	100.0	26	100.0

26.FUTURE..PROPS AS EQUIV RATIOS

RMPEQRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	19	100.0	19	100.0

26.HARD..PROPS AS EQUIV RATIOS

RMPEQRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	10	100.0	10	100.0

27.TEXT EMPHASIS..PROPS AS EQUIV RATIOS

RMPEQRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	26	92.9	26	92.9
NEGATIVE REASON	2	7.1	28	100.0

28.EMPHASIZED..PROPS AS EQUIV COMPS

RMPEQCE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	56	58.9	56	58.9
USED	35	36.8	91	95.8
NOT USED	4	4.2	95	100.0

29.IN TEXT..PROPS AS EQUIV COMPS

RMPEQCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
IN TEXT	76	80.9	76	80.9
NOT IN TEXT	18	19.1	94	100.0

30.KNOWN..PROPS AS EQUIV COMPS

RMPEQCK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	12	85.7	12	85.7
NEGATIVE REASON	2	14.3	14	100.0

30.SYLLABUS..PROPS AS EQUIV COMPS

RMPEQCS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	21	100.0	21	100.0

30.UNDERSTAND..PROPS AS EQUIV COMPS

RMPEQCU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	62	.	.	.
POSITIVE REASON	37	100.0	37	100.0

30.LIKED..PROPS AS EQUIV COMPS

RMPEQCL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	7	100.0	7	100.0

30.RELATED..PROPS AS EQUIV COMPS

RMPEQCR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	27	100.0	27	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
RATIO-PROPORTION-PERCENT TOPIC-SPECIFIC QUESTIONNAIRE

30.FUTURE..PROPS AS EQUIV COMPS

RMPEQCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	22	100.0	22	100.0

30.HARD..PROPS AS EQUIV COMPS

RMPEQCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	21	95.5	21	95.5
NEGATIVE REASON	1	4.5	22	100.0

31.TEXT EMPHASIS..PROPS AS EQUIV COMPS

RMPEQCX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	26	96.3	26	96.3
NEGATIVE REASON	1	3.7	27	100.0

32.EMPHASIZED..PROPS AS EQUIV FRACTIONS

RMPEQFE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	71	74.0	71	74.0
USED	21	21.9	92	95.8
NOT USED	4	4.2	96	100.0

33.IN TEXT..PROPS AS EQUIV FRACTIONS

RMPEQFT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
IN TEXT	82	87.2	82	87.2
NOT IN TEXT	12	12.8	94	100.0

34.KNOWN..PROPS AS EQUIV FRACTIONS

RMPEQFK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	18	90.0	18	90.0
NEGATIVE REASON	2	10.0	20	100.0

34.SYLLABUS..PROPS AS EQUIV FRACTIONS

RMPEQFS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	21	95.5	21	95.5
NEGATIVE REASON	1	4.5	22	100.0

34.UNDERSTAND..PROPS AS EQUIV FRACTIONS

RMPEQFU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
POSITIVE REASON	44	100.0	44	100.0

34.LIKED..PROPS AS EQUIV FRACTIONS

RMPEQFL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	10	100.0	10	100.0

34.RELATED..PROPS AS EQUIV FRACTIONS

RMPEQFR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
POSITIVE REASON	44	100.0	44	100.0

34.FUTURE..PROPS AS EQUIV FRACTIONS

RMPEQFF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	62	.	.	.
POSITIVE REASON	37	100.0	37	100.0

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34.HARD..PROPS AS EQUIV FRACTIONS

RMPEQFH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	19	95.0	19	95.0
NEGATIVE REASON	1	5.0	20	100.0

35.TEXT EMPHASIS..PROP AS EQUIV FRACTION

RMPEQFX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
POSITIVE REASON	34	97.1	34	97.1
NEGATIVE REASON	1	2.9	35	100.0

36.EMPHASIZED..PROPS AS EQUIV QUOTIENTS

RMPEQQE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	45	46.9	45	46.9
USED	30	31.3	75	78.1
NOT USED	21	21.9	96	100.0

37.IN TEXT..PROPS AS EQUIV QUOTIENTS

RMPEQQT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
IN TEXT	58	61.7	58	61.7
NOT IN TEXT	36	38.3	94	100.0

38.KNOWN..PROPS AS EQUIV QUOTIENTS

RMPEQQK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	10	58.8	10	58.8
NEGATIVE REASON	7	41.2	17	100.0

38.SYLLABUS..PROPS AS EQUIV QUOTIENTS

RMPEQQS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	16	84.2	16	84.2
NEGATIVE REASON	3	15.8	19	100.0

38.UNDERSTAND..PROPS AS EQUIV QUOTIENTS

RMPEQQU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	20	76.9	20	76.9
NEGATIVE REASON	6	23.1	26	100.0

38.LIKED..PROPS AS EQUIV QUOTIENTS

RMPEQQL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	5	83.3	5	83.3
NEGATIVE REASON	1	16.7	6	100.0

38.RELATED..PROPS AS EQUIV QUOTIENTS

RMPEQQR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	25	92.6	25	92.6
NEGATIVE REASON	2	7.4	27	100.0

38.FUTURE..PROPS AS EQUIV QUOTIENTS

RMPEQQF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	20	95.2	20	95.2
NEGATIVE REASON	1	4.8	21	100.0

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38.HARD..PROPS AS EQUIV QUOTIENTS

RMPEQQH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

39.TEXT EMPHASIS..PROP AS EQUIV QUOTIENT

RMPEQQX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	17	53.1	17	53.1
NEGATIVE REASON	15	46.9	32	100.0

40.PROP PROC..MULTIPLY DIVIDE TO EQUATE

RMSPMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	44	45.8	44	45.8
USED	40	41.7	84	87.5
NOT USED	12	12.5	96	100.0

41.PROP PROC..FIND THE CROSS PRODUCTS

RMSPXP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	37	38.5	37	38.5
USED	46	47.9	83	86.5
NOT USED	13	13.5	96	100.0

42.PROP PROC..DIVIDE TERMS OF ONE RATIO

RMSPDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	11	11.6	11	11.6
USED	39	41.1	50	52.6
NOT USED	45	47.4	95	100.0

43.SYMBOLIC NUMERIC IN PROP EQUATIONS

RMSPSYM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NUMERIC ONLY	42	43.8	42	43.8
NUMERIC FIRST	42	43.8	84	87.5
SYMBOLIC FIRST	12	12.5	96	100.0

44.PROP METHOD..PROPORTIONAL REASONING

RAPRSN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	18	18.8	18	18.8
USED	47	49.0	65	67.7
NOT USED	31	32.3	96	100.0

45.PROP METHOD..A PROPORTIONAL EQUATION

RAPREQU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	42	43.8	42	43.8
USED	44	45.8	86	89.6
NOT USED	10	10.4	96	100.0

46.PROP METHOD..UNIT METHOD

RAUNIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	40	41.7	40	41.7
USED	42	43.8	82	85.4
NOT USED	14	14.6	96	100.0

47.RAT PROP APPL..SCALE MODELS

RAMODEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	14	14.7	14	14.7
USED	47	49.5	61	64.2
NOT USED	34	35.8	95	100.0

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48.RAT PROP APPL..DISTANCES FROM MAPS

RAMAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	30	31.6	30	31.6
USED	53	55.8	83	87.4
NOT USED	12	12.6	95	100.0

49.RAT PROP APPL..SCALE DRAWINGS

RADRAW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
EMPHASIZED	28	29.8	28	29.8
USED	45	47.9	73	77.7
NOT USED	21	22.3	94	100.0

50.RAT PROP APPL..POP SIZE FROM SAMPLE

RASAMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	8	8.4	8	8.4
USED	44	46.3	52	54.7
NOT USED	43	45.3	95	100.0

51.RAT PROP APPL..BUYING DECISIONS COST

RACOST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	22	23.2	22	23.2
USED	54	56.8	76	80.0
NOT USED	19	20.0	95	100.0

52.RAT PROP APPL..MIXTURE OR RECIPE

RAMIX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	20	21.1	20	21.1
USED	56	58.9	76	80.0
NOT USED	19	20.0	95	100.0

53.RAT PROP APPL..REAL WORLD TRIANGLES

RARWTRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	25	26.3	25	26.3
USED	32	33.7	57	60.0
NOT USED	38	40.0	95	100.0

54.RAT PROP APPL..COMMISSION

RACOMM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	24	25.3	24	25.3
USED	47	49.5	71	74.7
NOT USED	24	25.3	95	100.0

55.RAT PROP APPL..DISCOUNT

RADISC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	33	34.7	33	34.7
USED	45	47.4	78	82.1
NOT USED	17	17.9	95	100.0

56.RAT PROP APPL..GENERAL WORD PROBLEMS

RAWP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
EMPHASIZED	49	52.1	49	52.1
USED	45	47.9	94	100.0

57.RAT PROP APPL..SIMPLE COMPND INTEREST

RAINST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	27	28.4	27	28.4
USED	46	48.4	73	76.8
NOT USED	22	23.2	95	100.0

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58.RAT PROP APPL..PCT INCREASE DECREASE

RAINCRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	39	41.1	39	41.1
USED	50	52.6	89	93.7
NOT USED	6	6.3	95	100.0

59.RAT PROP APPL..CIRCLE OR BAR GRAPHS

RAGRAPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	17	17.9	17	17.9
USED	50	52.6	67	70.5
NOT USED	28	29.5	95	100.0

60.PROBLEM SOURCE..STUDENT TEXTBOOK

RUTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	87	91.6	87	91.6
OCCASIONALLY	8	8.4	95	100.0

61.PROBLEM SOURCE..SUPPLEMENTARY BOOKS

RUSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	6	6.3	6	6.3
OCCASIONALLY	71	74.7	77	81.1
RARELY OR NEVER	18	18.9	95	100.0

62.PROBLEM SOURCE..LOCAL MATERIALS

RULOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	8	8.4	8	8.4
OCCASIONALLY	42	44.2	50	52.6
RARELY OR NEVER	45	47.4	95	100.0

63.PROBLEM SOURCE..GUIDE OR SYLLABUS

RUGUIDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	40	42.1	40	42.1
OCCASIONALLY	50	52.6	90	94.7
RARELY OR NEVER	5	5.3	95	100.0

64.PROBLEM SOURCE..PROF ASSN PUBLICATION

RUPPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	20	21.1	21	22.1
RARELY OR NEVER	74	77.9	95	100.0

65.PROBLEM SOURCE..STUDENT SUGGESTIONS

RUSTDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	5	5.3	5	5.3
OCCASIONALLY	35	36.8	40	42.1
RARELY OR NEVER	55	57.9	95	100.0

66.PROBLEM SOURCE..REAL WORLD

RUREALW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
FREQUENTLY	8	8.4	8	8.4
OCCASIONALLY	45	47.4	53	55.8
RARELY OR NEVER	42	44.2	95	100.0

67.TYPE 1 PCT PROBLEM..EQUATION METHOD

RMPPEQ1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	23	24.0	23	24.0
USED	40	41.7	63	65.6
NOT USED	33	34.4	96	100.0

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68.TYPE 1 PCT PROBLEM..PROPORTION METHOD

RMPPPR1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	32	33.3	32	33.3
USED	30	31.3	62	64.6
NOT USED	34	35.4	96	100.0

69.TYPE 1 PCT PROBLEM..ARITHMETIC METHOD

RMPPAR1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
EMPHASIZED	18	19.1	18	19.1
USED	28	29.8	46	48.9
NOT USED	48	51.1	94	100.0

70.TYPE 1 PCT PROBLEM..UNIT METHOD

RMPPUN1	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	34	35.8	34	35.8
USED	26	27.4	60	63.2
NOT USED	35	36.8	95	100.0

71.TYPE 2 PCT PROBLEM..EQUATION METHOD

RMPPEQ2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	11	11.6	11	11.6
USED	29	30.5	40	42.1
NOT USED	55	57.9	95	100.0

72.TYPE 2 PCT PROBLEM..PROPORTION METHOD

RMPPPR2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	35	36.8	35	36.8
USED	40	42.1	75	78.9
NOT USED	20	21.1	95	100.0

73.TYPE 2 PCT PROBLEM..ARITHMETIC METHOD

RMPPAR2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	18	18.8	18	18.8
USED	29	30.2	47	49.0
NOT USED	49	51.0	96	100.0

74.TYPE 2 PCT PROBLEM..UNIT METHOD

RMPPUN2	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	32	33.3	32	33.3
USED	25	26.0	57	59.4
NOT USED	39	40.6	96	100.0

75.TYPE 3 PCT PROBLEM..EQUATION METHOD

RMPPEQ3	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
EMPHASIZED	27	28.4	27	28.4
USED	23	24.2	50	52.6
NOT USED	45	47.4	95	100.0

76.TYPE 3 PCT PROBLEM..PROPORTION METHOD

RMPPPR3	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	32	33.3	32	33.3
USED	41	42.7	73	76.0
NOT USED	23	24.0	96	100.0

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77.TYPE 3 PCT PROBLEM..ARITHMETIC METHOD

RMPPAR3	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
EMPHASIZED	12	12.8	12	12.8
USED	25	26.6	37	39.4
NOT USED	57	60.6	94	100.0

78.TYPE 3 PCT PROBLEM..UNIT METHOD

RMPPUN3	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
EMPHASIZED	35	36.5	35	36.5
USED	26	27.1	61	63.5
NOT USED	35	36.5	96	100.0

79.AVERAGE LENGTH OF MATH PERIOD MINUTES

RPSIZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
1 THRU 30	18	18.8	18	18.8
31 THRU 40	31	32.3	49	51.0
41 THRU 50	47	49.0	96	100.0

80.PERIODS..TOTAL RATIO PROPORTION PCT

RPTOTAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
1 THRU 30	93	97.9	93	97.9
31 THRU 40	1	1.1	94	98.9
41 THRU 998	1	1.1	95	100.0

81.PERIODS..DEVELOP CONCEPT OF RATIO

RPRATIO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NONE	8	8.4	8	8.4
1 THRU 10	86	90.5	94	98.9
11 THRU 20	1	1.1	95	100.0

82.PERIODS..DEV. CONCEPT OF PROPORTION

RPPROP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NONE	4	4.2	4	4.2
1 THRU 10	91	95.8	95	100.0

83.PERIODS..SOLVING PROPORTION EQUATIONS

RPPREQU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NONE	7	7.4	7	7.4
1 THRU 10	88	92.6	95	100.0

84.PERIODS..APPLY RATIO PROPORTION

RPRAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NONE	1	1.1	1	1.1
1 THRU 10	93	98.9	94	100.0

85.PERIODS..DEVELOP CONCEPT OF PERCENT

RPPCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NONE	6	6.4	6	6.4
1 THRU 10	88	93.6	94	100.0

86.PERIODS..COMPUTING WITH PERCENT

RPCOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NONE	3	3.2	3	3.2
1 THRU 10	91	96.8	94	100.0

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87.PERIODS..PCTS TO COMMON FRACTIONS

RPCHGPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NONE	4	4.3	4	4.3
1 THRU 10	89	95.7	93	100.0

88.PERIODS..CHANGE PCTS TO DEC FRACTIONS

RPCHGPD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NONE	7	7.5	7	7.5
1 THRU 10	86	92.5	93	100.0

89.PERIODS..COMMON FRACTIONS TO PCTS

RPCHGFP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	8	8.7	8	8.7
1 THRU 10	84	91.3	92	100.0

90.PERIODS..CHANGE DEC FRACTIONS TO PCTS

RPCHGDP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	13	14.1	13	14.1
1 THRU 10	79	85.9	92	100.0

91.PERIODS..APPLICATIONS PERCENT

RPPAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NONE	1	1.1	1	1.1
1 THRU 10	92	97.9	93	98.9
21 THRU 30	1	1.1	94	100.0

92.OPINION..RELATE PERCENT TO PROPORTION

RORELAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	29	30.9	29	30.9
AGREE	56	59.6	85	90.4
UNDECIDED	5	5.3	90	95.7
DISAGREE	4	4.3	94	100.0

93.OPINION..PCT BEFORE RATIO PROPORTION

ROOPRP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	13	13.8	13	13.8
AGREE	24	25.5	37	39.4
UNDECIDED	11	11.7	48	51.1
DISAGREE	42	44.7	90	95.7
STRONGLY DISAGRE	4	4.3	94	100.0

94.OPINION..DELAY PROPORTN TIL LINEAR EQ

RODELLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	10	10.6	10	10.6
AGREE	34	36.2	44	46.8
UNDECIDED	14	14.9	58	61.7
DISAGREE	35	37.2	93	98.9
STRONGLY DISAGRE	1	1.1	94	100.0

95.OPINION..DELAY PROPORTION PAST GRADE

RODELP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
STRONGLY AGREE	3	3.2	3	3.2
AGREE	3	3.2	6	6.5
UNDECIDED	13	14.0	19	20.4
DISAGREE	62	66.7	81	87.1
STRONGLY DISAGRE	12	12.9	93	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
RATIO-PROPORTION-PERCENT TOPIC-SPECIFIC QUESTIONNAIRE

96.OPINION..USE ARITHMETIC METHOD FIRST

ROARITH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	4	4.3	4	4.3
AGREE	40	42.6	44	46.8
UNDECIDED	13	13.8	57	60.6
DISAGREE	34	36.2	91	96.8
STRONGLY DISAGRE	3	3.2	94	100.0

97.OPINION..SKILL INDICATES UNDERSTANDNG

ROSKILL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	22	23.4	22	23.4
AGREE	66	70.2	88	93.6
UNDECIDED	4	4.3	92	97.9
DISAGREE	2	2.1	94	100.0

98.OPINION..IDENTIFY TYPE OF PCT PROBLEM

ROIDENT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
STRONGLY AGREE	21	22.6	21	22.6
AGREE	50	53.8	71	76.3
UNDECIDED	11	11.8	82	88.2
DISAGREE	8	8.6	90	96.8
STRONGLY DISAGRE	3	3.2	93	100.0

99.OPINION..SPECIFIC PROC EACH PCT TYPE

ROSPEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	14	14.9	14	14.9
AGREE	57	60.6	71	75.5
UNDECIDED	8	8.5	79	84.0
DISAGREE	14	14.9	93	98.9
STRONGLY DISAGRE	1	1.1	94	100.0

100.OPINION..PERCENT WITH CALCULATOR

ROCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
STRONGLY AGREE	4	4.2	4	4.2
AGREE	8	8.4	12	12.6
UNDECIDED	12	12.6	24	25.3
DISAGREE	48	50.5	72	75.8
STRONGLY DISAGRE	23	24.2	95	100.0

101.OPINION..APPLY MORE THAN PROP EQ

ROAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
STRONGLY AGREE	4	4.2	4	4.2
AGREE	38	40.0	42	44.2
UNDECIDED	25	26.3	67	70.5
DISAGREE	28	29.5	95	100.0

102.OPINION..EMPHASIS CONSUMER APPLICATN

ROCNSMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	21	22.3	21	22.3
AGREE	63	67.0	84	89.4
UNDECIDED	5	5.3	89	94.7
DISAGREE	5	5.3	94	100.0

103.OPINION..TEACH RATIO AS FRACTIONS

ROFRAC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
STRONGLY AGREE	8	8.5	8	8.5
AGREE	27	28.7	35	37.2
UNDECIDED	18	19.1	53	56.4
DISAGREE	37	39.4	90	95.7
STRONGLY DISAGRE	4	4.3	94	100.0

Classroom Process Questionnaire

MEASUREMENT

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

1.USE OF..STUDENT TEXTBOOK

MSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	81	89.0	81	89.0
OCCASIONALLY	9	9.9	90	98.9
RARELY OR NEVER	1	1.1	91	100.0

2.USE OF..OTHER PUBLISHED TEXT MATERIALS

MSOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	12	13.2	12	13.2
OCCASIONALLY	56	61.5	68	74.7
RARELY OR NEVER	23	25.3	91	100.0

3.USE OF..LOCALLY PRODUCED TEXT MATERIAL

MSLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	3	3.3	3	3.3
OCCASIONALLY	38	41.8	41	45.1
RARELY OR NEVER	50	54.9	91	100.0

4.USE OF..INDIVIDUALIZED MATERIALS

MSINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
OCCASIONALLY	5	5.5	5	5.5
RARELY OR NEVER	86	94.5	91	100.0

5.USE OF..FILMS, FILMSTRIPS, MODELS

MSFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	10	11.0	11	12.1
RARELY OR NEVER	80	87.9	91	100.0

6.USE OF..LABORATORY MATERIALS

MSLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	22	24.2	23	25.3
RARELY OR NEVER	68	74.7	91	100.0

7.TOPIC..CONCEPT OF MEASUREMENT

MTCNCPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	29	31.9	29	31.9
REVIEWED THEN EX	54	59.3	83	91.2
REVIEWED ONLY	7	7.7	90	98.9
NOT TAUGHT, ASSU	1	1.1	91	100.0

8.TOPIC..NAMES OF METRIC UNITS

MTMET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	16	17.6	16	17.6
REVIEWED THEN EX	43	47.3	59	64.8
REVIEWED ONLY	25	27.5	84	92.3
NOT TAUGHT, ASSU	4	4.4	88	96.7
NOT TAUGHT, NOT	3	3.3	91	100.0

9.TOPIC..NAMES OF ENGLISH UNITS

MTENG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	10	11.0	10	11.0
REVIEWED THEN EX	21	23.1	31	34.1
REVIEWED ONLY	31	34.1	62	68.1
NOT TAUGHT, ASSU	9	9.9	71	78.0
NOT TAUGHT, NOT	20	22.0	91	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

10.TOPIC..CONVERSION WITHIN A SYSTEM

MTCONVW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8	.	.	.
TAUGHT AS NEW CO	18	19.8	18	19.8
REVIEWED THEN EX	41	45.1	59	64.8
REVIEWED ONLY	22	24.2	81	89.0
NOT TAUGHT, ASSU	6	6.6	87	95.6
NOT TAUGHT, NOT	4	4.4	91	100.0

11.TOPIC..CONVERSION BETWEEN SYSTEMS

MTCONVB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	22	24.4	22	24.4
REVIEWED THEN EX	39	43.3	61	67.8
REVIEWED ONLY	20	22.2	81	90.0
NOT TAUGHT, ASSU	2	2.2	83	92.2
NOT TAUGHT, NOT	7	7.8	90	100.0

12.TOPIC..ESTIMATING MEASUREMENTS

MTESTIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8	.	.	.
TAUGHT AS NEW CO	22	24.2	22	24.2
REVIEWED THEN EX	34	37.4	56	61.5
REVIEWED ONLY	23	25.3	79	86.8
NOT TAUGHT, ASSU	3	3.3	82	90.1
NOT TAUGHT, NOT	9	9.9	91	100.0

13.TOPIC..OPERATIONS WITH MEASUREMENTS

MTOPER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8	.	.	.
TAUGHT AS NEW CO	19	20.9	19	20.9
REVIEWED THEN EX	21	23.1	40	44.0
REVIEWED ONLY	22	24.2	62	68.1
NOT TAUGHT, ASSU	9	9.9	71	78.0
NOT TAUGHT, NOT	20	22.0	91	100.0

14.TOPIC..PRECISION, ACCURACY, ERROR

MTPREC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8	.	.	.
TAUGHT AS NEW CO	25	27.5	25	27.5
REVIEWED THEN EX	10	11.0	35	38.5
REVIEWED ONLY	14	15.4	49	53.8
NOT TAUGHT, ASSU	2	2.2	51	56.0
NOT TAUGHT, NOT	40	44.0	91	100.0

15.TOPIC..CONCEPT OF PI

MTPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8	.	.	.
TAUGHT AS NEW CO	19	20.9	19	20.9
REVIEWED THEN EX	20	22.0	39	42.9
REVIEWED ONLY	11	12.1	50	54.9
NOT TAUGHT, ASSU	6	6.6	56	61.5
NOT TAUGHT, NOT	35	38.5	91	100.0

16.TOPIC..LINEAR MEASUREMENT

MTLINM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	10	.	.	.
TAUGHT AS NEW CO	20	22.5	20	22.5
REVIEWED THEN EX	37	41.6	57	64.0
REVIEWED ONLY	24	27.0	81	91.0
NOT TAUGHT, ASSU	4	4.5	85	95.5
NOT TAUGHT, NOT	4	4.5	89	100.0

17.TOPIC..PERIMETER OF POLYGONS

MTPPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8	.	.	.
TAUGHT AS NEW CO	23	25.3	23	25.3
REVIEWED THEN EX	41	45.1	64	70.3
REVIEWED ONLY	17	18.7	81	89.0
NOT TAUGHT, ASSU	3	3.3	84	92.3
NOT TAUGHT, NOT	7	7.7	91	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

18.TOPIC..CIRCUMFERENCE OF A CIRCLE

MTCCIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	16	17.8	16	17.8
REVIEWED THEN EX	24	26.7	40	44.4
REVIEWED ONLY	24	26.7	64	71.1
NOT TAUGHT, ASSU	5	5.6	69	76.7
NOT TAUGHT, NOT	21	23.3	90	100.0

19.TOPIC..AREA OF A TRIANGLE

MTATRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	18	20.0	18	20.0
REVIEWED THEN EX	51	56.7	69	76.7
REVIEWED ONLY	19	21.1	88	97.8
NOT TAUGHT, ASSU	2	2.2	90	100.0

20.TOPIC..AREA OF RECTANGLES

MTARECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	16	17.8	16	17.8
REVIEWED THEN EX	47	52.2	63	70.0
REVIEWED ONLY	24	26.7	87	96.7
NOT TAUGHT, ASSU	3	3.3	90	100.0

21.TOPIC..AREA OF PARALLELOGRAMS

MTAPARA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	21	23.3	21	23.3
REVIEWED THEN EX	47	52.2	68	75.6
REVIEWED ONLY	20	22.2	88	97.8
NOT TAUGHT, NOT	2	2.2	90	100.0

22.TOPIC..AREA OF A TRAPEZOID

MTATRAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	20	22.2	20	22.2
REVIEWED THEN EX	44	48.9	64	71.1
REVIEWED ONLY	21	23.3	85	94.4
NOT TAUGHT, ASSU	2	2.2	87	96.7
NOT TAUGHT, NOT	3	3.3	90	100.0

23.TOPIC..AREA OF A CIRCLE

MTACIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	20	22.2	20	22.2
REVIEWED THEN EX	38	42.2	58	64.4
REVIEWED ONLY	16	17.8	74	82.2
NOT TAUGHT, ASSU	4	4.4	78	86.7
NOT TAUGHT, NOT	12	13.3	90	100.0

24.TOPIC..SURFACE AREA OF RECT SOLIDS

MTSRECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	52	57.8	52	57.8
REVIEWED THEN EX	30	33.3	82	91.1
REVIEWED ONLY	7	7.8	89	98.9
NOT TAUGHT, NOT	1	1.1	90	100.0

25.TOPIC..SURFACE AREA OF CYLINDERS

MTSCYLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9	.	.	.
TAUGHT AS NEW CO	37	41.1	37	41.1
REVIEWED THEN EX	22	24.4	59	65.6
REVIEWED ONLY	6	6.7	65	72.2
NOT TAUGHT, ASSU	3	3.3	68	75.6
NOT TAUGHT, NOT	22	24.4	90	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

26.TOPIC..SURFACE AREA OF SPHERES

MTSSPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	32	35.6	32	35.6
REVIEWED THEN EX	23	25.6	55	61.1
REVIEWED ONLY	4	4.4	59	65.6
NOT TAUGHT, ASSU	3	3.3	62	68.9
NOT TAUGHT, NOT	28	31.1	90	100.0

27.TOPIC..VOLUME OF RECTANGULAR SOLIDS

MTVRECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	46	51.7	46	51.7
REVIEWED THEN EX	35	39.3	81	91.0
REVIEWED ONLY	8	9.0	89	100.0

28.TOPIC..VOLUME OF CYLINDERS AND PRISMS

MTVCYLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	52	57.8	52	57.8
REVIEWED THEN EX	29	32.2	81	90.0
REVIEWED ONLY	3	3.3	84	93.3
NOT TAUGHT, NOT	6	6.7	90	100.0

29.TOPIC..VOLUME OF SPHERES

MTVSPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	31	34.4	31	34.4
REVIEWED THEN EX	20	22.2	51	56.7
REVIEWED ONLY	7	7.8	58	64.4
NOT TAUGHT, ASSU	2	2.2	60	66.7
NOT TAUGHT, NOT	30	33.3	90	100.0

30.TOPIC..VOLUME OF CONES AND PYRAMIDS

MTVCONE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	35	38.9	35	38.9
REVIEWED THEN EX	15	16.7	50	55.6
REVIEWED ONLY	2	2.2	52	57.8
NOT TAUGHT, ASSU	4	4.4	56	62.2
NOT TAUGHT, NOT	34	37.8	90	100.0

31.AID USE..RULERS

MAIDRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	64	70.3	64	70.3
OCCASIONALLY	24	26.4	88	96.7
RARELY OR NEVER	3	3.3	91	100.0

32.AID USE..MEASURING TAPE

MAIDTAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	5	5.5	5	5.5
OCCASIONALLY	39	42.9	44	48.4
RARELY OR NEVER	47	51.6	91	100.0

33.AID USE..TRUNDLE WHEEL

MAIDWHL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
OCCASIONALLY	8	8.9	8	8.9
RARELY OR NEVER	82	91.1	90	100.0

34.AID USE..NON-STANDARD UNITS

MAIDNSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
OCCASIONALLY	30	33.0	30	33.0
RARELY OR NEVER	61	67.0	91	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

35.AID USE..GEOBOARDS GRAPH PAPER GRIDS

MAIDGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	4	4.4	4	4.4
OCCASIONALLY	29	31.9	33	36.3
RARELY OR NEVER	58	63.7	91	100.0

36.AID USE..STANDARD UNITS FOR AREA

MAIDSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	14	15.4	14	15.4
OCCASIONALLY	34	37.4	48	52.7
RARELY OR NEVER	43	47.3	91	100.0

37.AID USE..GRADUATED CYLINDERS

MAIDCYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	4	4.4	4	4.4
OCCASIONALLY	23	25.3	27	29.7
RARELY OR NEVER	64	70.3	91	100.0

38.AID USE..CONTAINERS

MAIDCON	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	4	4.4	4	4.4
OCCASIONALLY	29	31.9	33	36.3
RARELY OR NEVER	58	63.7	91	100.0

39.AID USE..FILLABLE MODELS

MAIDMOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	3	3.3	3	3.3
OCCASIONALLY	45	49.5	48	52.7
RARELY OR NEVER	43	47.3	91	100.0

40.UNITS METHOD..USE NON-STANDARD UNITS

MMNSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	1	1.1	1	1.1
USED	24	26.4	25	27.5
NOT USED	66	72.5	91	100.0

41.UNITS METHOD..MEASURE STANDARD UNITS

MMSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	46	50.5	46	50.5
USED	34	37.4	80	87.9
NOT USED	11	12.1	91	100.0

42.UNITS METHOD..ESTIMATE SIZE OF OBJECT

MMESTIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	24	26.4	24	26.4
USED	52	57.1	76	83.5
NOT USED	15	16.5	91	100.0

43.UNITS METHOD..IDENT OBJECTS OF A SIZE

MMIDENT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	9	9.9	9	9.9
USED	48	52.7	57	62.6
NOT USED	34	37.4	91	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

44.UNITS METHOD..MEASURE DIFFERENT UNITS

MMDIFFU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	31	34.1	31	34.1
USED	45	49.5	76	83.5
NOT USED	15	16.5	91	100.0

45.UNITS METHOD..MEASURE SMALLER UNITS

MMSMALU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	38	41.8	38	41.8
USED	36	39.6	74	81.3
NOT USED	17	18.7	91	100.0

46.EMPHASIZED..PI BY CIRCUM TO DIAMETER

MMPCDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	8	9.0	8	9.0
USED	38	42.7	46	51.7
NOT USED	43	48.3	89	100.0

47.IN TEXT..PI BY CIRCUM TO DIAMETER

MMPCDT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
IN TEXT	23	27.1	23	27.1
NOT IN TEXT	62	72.9	85	100.0

48.KNOWN..PI BY CIRCUM TO DIAMETER

MMPCDK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	2	22.2	2	22.2
NEGATIVE REASON	7	77.8	9	100.0

48.SYLLABUS..PI BY CIRCUM TO DIAMETER

MMPCDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	3	15.8	3	15.8
NEGATIVE REASON	16	84.2	19	100.0

48.UNDERSTAND..PI BY CIRCUM TO DIAMETER

MMPCDU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	6	40.0	6	40.0
NEGATIVE REASON	9	60.0	15	100.0

48.LIKED..PI BY CIRCUM TO DIAMETER

MMPCDL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

48.RELATED..PI BY CIRCUM TO DIAMETER

MMPCDR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	4	66.7	4	66.7
NEGATIVE REASON	2	33.3	6	100.0

48.FUTURE..PI BY CIRCUM TO DIAMETER

MMPCDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	4	100.0	4	100.0

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48.HARD..PI BY CIRCUM TO DIAMETER

MMPCDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	4	57.1	4	57.1
NEGATIVE REASON	3	42.9	7	100.0

49.TEXT EMPHASIS..PI..CIRCUM TO DIAMETER

MMPCDX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	3	9.4	3	9.4
NEGATIVE REASON	29	90.6	32	100.0

50.EMPHASIZED..PI AS 22 7THS OR 3.14

MMP227E	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	32	36.0	32	36.0
USED	34	38.2	66	74.2
NOT USED	23	25.8	89	100.0

51.IN TEXT..PI AS 22 7THS OR 3.14

MMP227T	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
IN TEXT	45	51.7	45	51.7
NOT IN TEXT	42	48.3	87	100.0

52.KNOWN..PI AS 22 7THS OR 3.14

MMP227K	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	7	87.5	7	87.5
NEGATIVE REASON	1	12.5	8	100.0

52.SYLLABUS..PI AS 22 7THS OR 3.14

MMP227S	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	13	65.0	13	65.0
NEGATIVE REASON	7	35.0	20	100.0

52.UNDERSTAND..PI AS 22 7THS OR 3.14

MMP227U	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	17	100.0	17	100.0

52.LIKED..PI AS 22 7THS OR 3.14

MMP227L	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	4	100.0	4	100.0

52.RELATED..PI AS 22 7THS OR 3.14

MMP227R	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	15	88.2	15	88.2
NEGATIVE REASON	2	11.8	17	100.0

52.FUTURE..PI AS 22 7THS OR 3.14

MMP227F	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	19	100.0	19	100.0

52.HARD..PI AS 22 7THS OR 3.14

MMP227H	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	7	87.5	7	87.5
NEGATIVE REASON	1	12.5	8	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

53.TEXT EMPHASIS..PI AS 22 7THS OR 3.14

MMP227X	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	69	.	.	.
POSITIVE REASON	13	43.3	13	43.3
NEGATIVE REASON	17	56.7	30	100.0

54.EMPHASIZED..PI BY BUFFONS NEEDLE

MMPBUFE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	1	1.1	1	1.1
USED	1	1.1	2	2.2
NOT USED	87	97.8	89	100.0

55.IN TEXT..PI BY BUFFONS NEEDLE

MMPBUFT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
IN TEXT	3	3.5	3	3.5
NOT IN TEXT	83	96.5	86	100.0

56.KNOWN..PI BY BUFFONS NEEDLE

MMPBUFK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
NEGATIVE REASON	21	100.0	21	100.0

56.SYLLABUS..PI BY BUFFONS NEEDLE

MMPBUFS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
NEGATIVE REASON	29	100.0	29	100.0

56.UNDERSTAND..PI BY BUFFONS NEEDLE

MMPBUFU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
NEGATIVE REASON	14	100.0	14	100.0

56.LIKED..PI BY BUFFONS NEEDLE

MMPBUFL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	1	20.0	1	20.0
NEGATIVE REASON	4	80.0	5	100.0

56.RELATED..PI BY BUFFONS NEEDLE

MMPBUFR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
NEGATIVE REASON	6	100.0	6	100.0

56.FUTURE..PI BY BUFFONS NEEDLE

MMPBUFF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	97	.	.	.
NEGATIVE REASON	2	100.0	2	100.0

56.HARD..PI BY BUFFONS NEEDLE

MMPBUFH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
NEGATIVE REASON	4	100.0	4	100.0

57.TEXT EMPHASIS..PI BY BUFFONS NEEDLE

MMPBUFX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	45	.	.	.
NEGATIVE REASON	54	100.0	54	100.0

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MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

58.EMPHASIZED..PI BY CHART OF RATIOS

MMPCHRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	8	9.1	8	9.1
USED	24	27.3	32	36.4
NOT USED	56	63.6	88	100.0

59.IN TEXT..PI BY CHART OF RATIOS

MMPCHRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
IN TEXT	10	11.6	10	11.6
NOT IN TEXT	76	88.4	86	100.0

60.KNOWN..PI BY CHART OF RATIOS

MMPCHRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	3	30.0	3	30.0
NEGATIVE REASON	7	70.0	10	100.0

60.SYLLABUS..PI BY CHART OF RATIOS

MMPCHRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	3	13.6	3	13.6
NEGATIVE REASON	19	86.4	22	100.0

60.UNDERSTAND..PI BY CHART OF RATIOS

MMPCHRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	7	58.3	7	58.3
NEGATIVE REASON	5	41.7	12	100.0

60.LIKED..PI BY CHART OF RATIOS

MMPCHRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	3	75.0	3	75.0
NEGATIVE REASON	1	25.0	4	100.0

60.RELATED..PI BY CHART OF RATIOS

MMPCHRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	5	71.4	5	71.4
NEGATIVE REASON	2	28.6	7	100.0

60.FUTURE..PI BY CHART OF RATIOS

MMPCHRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	5	100.0	5	100.0

60.HARD..PI BY CHART OF RATIOS

MMPCHRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	3	60.0	3	60.0
NEGATIVE REASON	2	40.0	5	100.0

61.TEXT EMPHASIS..PI BY CHART OF RATIOS

MMPCHRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	60	.	.	.
POSITIVE REASON	3	7.7	3	7.7
NEGATIVE REASON	36	92.3	39	100.0

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MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

62.EMPHASIZED..PI AS IRRATIONAL NUMBER

MMPNUME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	15	17.0	15	17.0
USED	29	33.0	44	50.0
NOT USED	44	50.0	88	100.0

63.IN TEXT..PI AS IRRATIONAL NUMBER

MMPNUMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
IN TEXT	24	27.6	24	27.6
NOT IN TEXT	63	72.4	87	100.0

64.KNOWN..PI AS IRRATIONAL NUMBER

MMPNUMK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	7	63.6	7	63.6
NEGATIVE REASON	4	36.4	11	100.0

64.SYLLABUS..PI AS IRRATIONAL NUMBER

MMPNUMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	5	22.7	5	22.7
NEGATIVE REASON	17	77.3	22	100.0

64.UNDERSTAND..PI AS IRRATIONAL NUMBER

MMPNUMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	7	70.0	7	70.0
NEGATIVE REASON	3	30.0	10	100.0

64.LIKED..PI AS IRRATIONAL NUMBER

MMPNUML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
POSITIVE REASON	3	100.0	3	100.0

64.RELATED..PI AS IRRATIONAL NUMBER

MMPNUMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	8	72.7	8	72.7
NEGATIVE REASON	3	27.3	11	100.0

64.FUTURE..PI AS IRRATIONAL NUMBER

MMPNUMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	10	100.0	10	100.0

64.HARD..PI AS IRRATIONAL NUMBER

MMPNUMH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	3	75.0	3	75.0
NEGATIVE REASON	1	25.0	4	100.0

65.TEXT EMPHASIS..PI..IRRATIONAL NUMBER

MMPNUMX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	3	9.4	3	9.4
NEGATIVE REASON	29	90.6	32	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

66.EMPHASIZED..PI BY INSCRIBED POLYGONS

MMPPOLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
EMPHASIZED	5	5.7	5	5.7
USED	11	12.6	16	18.4
NOT USED	71	81.6	87	100.0

67.IN TEXT..PI BY INSCRIBED POLYGONS

MMPPOLT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
IN TEXT	6	7.0	6	7.0
NOT IN TEXT	80	93.0	86	100.0

68.KNOWN..PI BY INSCRIBED POLYGONS

MMPPOLK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	1	5.9	1	5.9
NEGATIVE REASON	16	94.1	17	100.0

68.SYLLABUS..PI BY INSCRIBED POLYGONS

MMPPOLS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	2	8.3	2	8.3
NEGATIVE REASON	22	91.7	24	100.0

68.UNDERSTAND..PI BY INSCRIBED POLYGONS

MMPPOLU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	3	20.0	3	20.0
NEGATIVE REASON	12	80.0	15	100.0

68.LIKED..PI BY INSCRIBED POLYGONS

MMPPOLL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	2	50.0	2	50.0
NEGATIVE REASON	2	50.0	4	100.0

68.RELATED..PI BY INSCRIBED POLYGONS

MMPPOLR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	2	25.0	2	25.0
NEGATIVE REASON	6	75.0	8	100.0

68.FUTURE..PI BY INSCRIBED POLYGONS

MMPPOLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	97	.	.	.
POSITIVE REASON	2	100.0	2	100.0

68.HARD..PI BY INSCRIBED POLYGONS

MMPPOLH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	1	11.1	1	11.1
NEGATIVE REASON	8	88.9	9	100.0

69.TEXT EMPHASIS..PI..INSCRIBED POLYGONS

MMPPOLX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
POSITIVE REASON	1	2.0	1	2.0
NEGATIVE REASON	50	98.0	51	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

70.EMPHASIZED..PI BY CIRCLE RADIUS ONE

MMPONEE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	1	1.1	1	1.1
USED	11	12.5	12	13.6
NOT USED	76	86.4	88	100.0

71.IN TEXT..PI BY CIRCLE RADIUS ONE

MMPONET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
IN TEXT	5	5.9	5	5.9
NOT IN TEXT	80	94.1	85	100.0

72.KNOWN..PI BY CIRCLE RADIUS ONE

MMPONEK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
NEGATIVE REASON	15	100.0	15	100.0

72.SYLLABUS..PI BY CIRCLE RADIUS ONE

MMPONES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
NEGATIVE REASON	28	100.0	28	100.0

72.UNDERSTAND..PI BY CIRCLE RADIUS ONE

MMPONEU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	1	5.9	1	5.9
NEGATIVE REASON	16	94.1	17	100.0

72.LIKED..PI BY CIRCLE RADIUS ONE

MMPONEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
NEGATIVE REASON	3	100.0	3	100.0

72.RELATED..PI BY CIRCLE RADIUS ONE

MMPONER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	1	20.0	1	20.0
NEGATIVE REASON	4	80.0	5	100.0

72.FUTURE..PI BY CIRCLE RADIUS ONE

MMPONEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	98	.	.	.
NEGATIVE REASON	1	100.0	1	100.0

72.HARD..PI BY CIRCLE RADIUS ONE

MMPONEH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
NEGATIVE REASON	11	100.0	11	100.0

73.TEXT EMPHASIS..PI..CIRCLE RADIUS ONE

MMPONEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
NEGATIVE REASON	45	100.0	45	100.0

74.EMPHASIZED..AREA BY FORMULA

MMAFORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	57	63.3	57	63.3
USED	23	25.6	80	88.9
NOT USED	10	11.1	90	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

75.IN TEXT..AREA BY FORMULA

MMAFORT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
IN TEXT	76	86.4	76	86.4
NOT IN TEXT	12	13.6	88	100.0

76.KNOWN..AREA BY FORMULA

MMAFORK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	17	73.9	17	73.9
NEGATIVE REASON	6	26.1	23	100.0

76.SYLLABUS..AREA BY FORMULA

MMAFORS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	23	88.5	23	88.5
NEGATIVE REASON	3	11.5	26	100.0

76.UNDERSTAND..AREA BY FORMULA

MMAFORU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	52	.	.	.
POSITIVE REASON	46	97.9	46	97.9
NEGATIVE REASON	1	2.1	47	100.0

76.LIKED..AREA BY FORMULA

MMAFORL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	11	91.7	11	91.7
NEGATIVE REASON	1	8.3	12	100.0

76.RELATED..AREA BY FORMULA

MMAFORR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	24	85.7	24	85.7
NEGATIVE REASON	4	14.3	28	100.0

76.FUTURE..AREA BY FORMULA

MMAFORF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	26	96.3	26	96.3
NEGATIVE REASON	1	3.7	27	100.0

76.HARD..AREA BY FORMULA

MMAFORH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	22	91.7	22	91.7
NEGATIVE REASON	2	8.3	24	100.0

77.TEXT EMPHASIS..AREA BY FORMULA

MMAFORX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	22	88.0	22	88.0
NEGATIVE REASON	3	12.0	25	100.0

78.EMPHASIZED..AREA BY GRID BASE ALT

MMAGBAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	10	11.1	10	11.1
USED	25	27.8	35	38.9
NOT USED	55	61.1	90	100.0

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79.IN TEXT..AREA BY GRID BASE ALT

MMAGBAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
IN TEXT	20	22.7	20	22.7
NOT IN TEXT	68	77.3	88	100.0

80.KNOWN..AREA BY GRID BASE ALT

MMAGBAK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	3	15.0	3	15.0
NEGATIVE REASON	17	85.0	20	100.0

80.SYLLABUS..AREA BY GRID BASE ALT

MMAGBAS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	2	11.8	2	11.8
NEGATIVE REASON	15	88.2	17	100.0

80.UNDERSTAND..AREA BY GRID BASE ALT

MMAGBAU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	6	54.5	6	54.5
NEGATIVE REASON	5	45.5	11	100.0

80.LIKED..AREA BY GRID BASE ALT

MMAGBAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	4	66.7	4	66.7
NEGATIVE REASON	2	33.3	6	100.0

80.RELATED..AREA BY GRID BASE ALT

MMAGBAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	3	50.0	3	50.0
NEGATIVE REASON	3	50.0	6	100.0

80.FUTURE..AREA BY GRID BASE ALT

MMAGBAF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
POSITIVE REASON	3	100.0	3	100.0

80.HARD..AREA BY GRID BASE ALT

MMAGBAH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	4	36.4	4	36.4
NEGATIVE REASON	7	63.6	11	100.0

81.TEXT EMPHASIS..AREA BY GRID BASE ALT

MMAGBAX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	4	13.8	4	13.8
NEGATIVE REASON	25	86.2	29	100.0

82.EMPHASIZED..AREA BY GRID TRIANGLES

MMAGTRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	9	10.1	9	10.1
USED	29	32.6	38	42.7
NOT USED	51	57.3	89	100.0

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83.IN TEXT..AREA BY GRID TRIANGLES

MMAGTRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
IN TEXT	25	28.4	25	28.4
NOT IN TEXT	63	71.6	88	100.0

84.KNOWN..AREA BY GRID TRIANGLES

MMAGTRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	2	11.1	2	11.1
NEGATIVE REASON	16	88.9	18	100.0

84.SYLLABUS..AREA BY GRID TRIANGLES

MMAGTRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	2	13.3	2	13.3
NEGATIVE REASON	13	86.7	15	100.0

84.UNDERSTAND..AREA BY GRID TRIANGLES

MMAGTRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	6	42.9	6	42.9
NEGATIVE REASON	8	57.1	14	100.0

84.LIKED..AREA BY GRID TRIANGLES

MMAGTRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	2	40.0	2	40.0
NEGATIVE REASON	3	60.0	5	100.0

84.RELATED..AREA BY GRID TRIANGLES

MMAGTRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	5	55.6	5	55.6
NEGATIVE REASON	4	44.4	9	100.0

84.FUTURE..AREA BY GRID TRIANGLES

MMAGTRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	97	.	.	.
POSITIVE REASON	1	50.0	1	50.0
NEGATIVE REASON	1	50.0	2	100.0

84.HARD..AREA BY GRID TRIANGLES

MMAGTRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	4	25.0	4	25.0
NEGATIVE REASON	12	75.0	16	100.0

85.TEXT EMPHASIS..AREA BY GRID TRIANGLES

MMAGTRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	3	10.7	3	10.7
NEGATIVE REASON	25	89.3	28	100.0

86.EMPHASIZED..AREA BY COMP RECTANGLE

MMARECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	48	53.3	48	53.3
USED	32	35.6	80	88.9
NOT USED	10	11.1	90	100.0

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87.IN TEXT..AREA BY COMP RECTANGLE

MMARECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
IN TEXT	59	67.0	59	67.0
NOT IN TEXT	29	33.0	88	100.0

88.KNOWN..AREA BY COMP RECTANGLE

MMARECK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	13	81.3	13	81.3
NEGATIVE REASON	3	18.8	16	100.0

88.SYLLABUS..AREA BY COMP RECTANGLE

MMARECS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	15	75.0	15	75.0
NEGATIVE REASON	5	25.0	20	100.0

88.UNDERSTAND..AREA BY COMP RECTANGLE

MMARECU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	29	93.5	29	93.5
NEGATIVE REASON	2	6.5	31	100.0

88.LIKED..AREA BY COMP RECTANGLE

MMARECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	6	75.0	6	75.0
NEGATIVE REASON	2	25.0	8	100.0

88.RELATED..AREA BY COMP RECTANGLE

MMARECR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	26	92.9	26	92.9
NEGATIVE REASON	2	7.1	28	100.0

88.FUTURE..AREA BY COMP RECTANGLE

MMARECF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	17	100.0	17	100.0

88.HARD..AREA BY COMP RECTANGLE

MMARECH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	14	87.5	14	87.5
NEGATIVE REASON	2	12.5	16	100.0

89.TEXT EMPHASIS..AREA BY COMP RECTANGLE

MMARECX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	19	79.2	19	79.2
NEGATIVE REASON	5	20.8	24	100.0

90.EMPHASIZED..AREA BY CUT TRIANGLES

MMACUTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	21	23.6	21	23.6
USED	30	33.7	51	57.3
NOT USED	38	42.7	89	100.0

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91.IN TEXT..AREA BY CUT TRIANGLES

MMACUTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
IN TEXT	39	44.8	39	44.8
NOT IN TEXT	48	55.2	87	100.0

92.KNOWN..AREA BY CUT TRIANGLES

MMACUTK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	7	43.8	7	43.8
NEGATIVE REASON	9	56.3	16	100.0

92.SYLLABUS..AREA BY CUT TRIANGLES

MMACUTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	7	46.7	7	46.7
NEGATIVE REASON	8	53.3	15	100.0

92.UNDERSTAND..AREA BY CUT TRIANGLES

MMACUTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	17	73.9	17	73.9
NEGATIVE REASON	6	26.1	23	100.0

92.LIKED..AREA BY CUT TRIANGLES

MMACUTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	6	66.7	6	66.7
NEGATIVE REASON	3	33.3	9	100.0

92.RELATED..AREA BY CUT TRIANGLES

MMACUTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	12	85.7	12	85.7
NEGATIVE REASON	2	14.3	14	100.0

92.FUTURE..AREA BY CUT TRIANGLES

MMACUTF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	7	100.0	7	100.0

92.HARD..AREA BY CUT TRIANGLES

MMACUTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

93.TEXT EMPHASIS..AREA BY CUT TRIANGLES

MMACUTX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	63	.	.	.
POSITIVE REASON	11	30.6	11	30.6
NEGATIVE REASON	25	69.4	36	100.0

94.EMPHASIZED..AREA BY CNGRNT TRIANGLES

MMACTRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	27	30.3	27	30.3
USED	37	41.6	64	71.9
NOT USED	25	28.1	89	100.0

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95.IN TEXT..AREA BY CNGRNT TRIANGLES

MMACTRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
IN TEXT	42	48.3	42	48.3
NOT IN TEXT	45	51.7	87	100.0

96.KNOWN..AREA BY CNGRNT TRIANGLES

MMACTRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	8	53.3	8	53.3
NEGATIVE REASON	7	46.7	15	100.0

96.SYLLABUS..AREA BY CNGRNT TRIANGLES

MMACTRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	13	61.9	13	61.9
NEGATIVE REASON	8	38.1	21	100.0

96.UNDERSTAND..AREA BY CNGRNT TRIANGLES

MMACTRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	22	88.0	22	88.0
NEGATIVE REASON	3	12.0	25	100.0

96.LIKED..AREA BY CNGRNT TRIANGLES

MMACTRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

96.RELATED..AREA BY CNGRNT TRIANGLES

MMACTRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	13	86.7	13	86.7
NEGATIVE REASON	2	13.3	15	100.0

96.FUTURE..AREA BY CNGRNT TRIANGLES

MMACTRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	12	100.0	12	100.0

96.HARD..AREA BY CNGRNT TRIANGLES

MMACTRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	8	72.7	8	72.7
NEGATIVE REASON	3	27.3	11	100.0

97.TEXT EMPHASIS..AREA BY CNGRNT TRIANGL

MMACTRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	11	44.0	11	44.0
NEGATIVE REASON	14	56.0	25	100.0

98.EMPHASIZED..AREA BY PARTITIONING

MMAPARE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	44	49.4	44	49.4
USED	34	38.2	78	87.6
NOT USED	11	12.4	89	100.0

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99.IN TEXT..AREA BY PARTITIONING

MMAPART	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
IN TEXT	59	67.8	59	67.8
NOT IN TEXT	28	32.2	87	100.0

100.KNOWN..AREA BY PARTITIONING

MMAPARK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	12	85.7	12	85.7
NEGATIVE REASON	2	14.3	14	100.0

100.SYLLABUS..AREA BY PARTITIONING

MMAPARS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	20	83.3	20	83.3
NEGATIVE REASON	4	16.7	24	100.0

100.UNDERSTAND..AREA BY PARTITIONING

MMAPARU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	29	90.6	29	90.6
NEGATIVE REASON	3	9.4	32	100.0

100.LIKED..AREA BY PARTITIONING

MMAPARL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

100.RELATED..AREA BY PARTITIONING

MMAPARR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	69	.	.	.
POSITIVE REASON	28	93.3	28	93.3
NEGATIVE REASON	2	6.7	30	100.0

100.FUTURE..AREA BY PARTITIONING

MMAPARF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	18	94.7	18	94.7
NEGATIVE REASON	1	5.3	19	100.0

100.HARD..AREA BY PARTITIONING

MMAPARH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	15	93.8	15	93.8
NEGATIVE REASON	1	6.3	16	100.0

101.TEXT EMPHASIS..AREA BY PARTITIONING

MMAPARX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	19	79.2	19	79.2
NEGATIVE REASON	5	20.8	24	100.0

102.EMPHASIZED..AREA BY SUBT TRIANGLES

MMASUBE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
EMPHASIZED	11	12.4	11	12.4
USED	32	36.0	43	48.3
NOT USED	46	51.7	89	100.0

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MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

103.IN TEXT..AREA BY SUBT TRIANGLES

MMASUBT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
IN TEXT	26	29.9	26	29.9
NOT IN TEXT	61	70.1	87	100.0

104.KNOWN..AREA BY SUBT TRIANGLES

MMASUBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	4	19.0	4	19.0
NEGATIVE REASON	17	81.0	21	100.0

104.SYLLABUS..AREA BY SUBT TRIANGLES

MMASUBS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	5	27.8	5	27.8
NEGATIVE REASON	13	72.2	18	100.0

104.UNDERSTAND..AREA BY SUBT TRIANGLES

MMASUBU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	8	47.1	8	47.1
NEGATIVE REASON	9	52.9	17	100.0

104.LIKED..AREA BY SUBT TRIANGLES

MMASUBL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	4	66.7	4	66.7
NEGATIVE REASON	2	33.3	6	100.0

104.RELATED..AREA BY SUBT TRIANGLES

MMASUBR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	4	40.0	4	40.0
NEGATIVE REASON	6	60.0	10	100.0

104.FUTURE..AREA BY SUBT TRIANGLES

MMASUBF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	8	88.9	8	88.9
NEGATIVE REASON	1	11.1	9	100.0

104.HARD..AREA BY SUBT TRIANGLES

MMASUBH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	4	57.1	4	57.1
NEGATIVE REASON	3	42.9	7	100.0

105.TEXT EMPHASIS..AREA BY SUBT TRIANGLE

MMASUBX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	4	15.4	4	15.4
NEGATIVE REASON	22	84.6	26	100.0

106.PRISM METHOD..FORMULA

MMVPFOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	68	74.7	68	74.7
USED	18	19.8	86	94.5
NOT USED	5	5.5	91	100.0

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107.PRISM METHOD..PHYSICAL MODEL

MMVPMOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	42	46.2	42	46.2
USED	30	33.0	72	79.1
NOT USED	19	20.9	91	100.0

108.PRISM METHOD..BUILD WITH UNIT CUBES

MMVPBLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	11	12.1	11	12.1
USED	29	31.9	40	44.0
NOT USED	51	56.0	91	100.0

109.METRIC UNITS..ANALOGY WITH DECIMALS

MMUNDEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	30	33.0	30	33.0
USED	39	42.9	69	75.8
NOT USED	22	24.2	91	100.0

110.METRIC UNITS..RULES TO CHANGE UNITS

MMUNCHG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	44	48.4	44	48.4
USED	44	48.4	88	96.7
NOT USED	3	3.3	91	100.0

111.METRIC UNITS..TABLE SHOW DEFINITIONS

MMUNTAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	7	7.8	7	7.8
USED	24	26.7	31	34.4
NOT USED	59	65.6	90	100.0

112.METRIC UNITS..NUMBER LINE METERSTICK

MMUNLIN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	23	25.3	23	25.3
USED	41	45.1	64	70.3
NOT USED	27	29.7	91	100.0

113.METRIC UNITS..CM AND DM CUBES

MMUNCUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	7	7.7	7	7.7
USED	30	33.0	37	40.7
NOT USED	54	59.3	91	100.0

114.METRIC UNITS..LENGTH CAPACITY MASS

MMUNINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	33	36.3	33	36.3
USED	36	39.6	69	75.8
NOT USED	22	24.2	91	100.0

115.AVERAGE LENGTH MATH PERIOD MINUTES

MPSIZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
1 THRU 30	14	15.4	14	15.4
31 THRU 40	29	31.9	43	47.3
41 THRU 50	48	52.7	91	100.0

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MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

116.PERIODS..TOTAL ON MEASUREMENT

MPTOTAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
1 THRU 20	62	70.5	62	70.5
21 THRU 30	18	20.5	80	90.9
31 THRU 40	5	5.7	85	96.6
41 THRU 50	2	2.3	87	98.9
51 THRU 998	1	1.1	88	100.0

117.PERIODS..CONCEPT OF MEASUREMENT

MPCNCPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	16	18.2	16	18.2
1 THRU 5	72	81.8	88	100.0

118.PERIODS..UNITS IN THE METRIC SYSTEM

MPMET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
NONE	31	36.5	31	36.5
1 THRU 5	53	62.4	84	98.8
6 THRU 10	1	1.2	85	100.0

119.PERIODS..UNITS IN THE ENGLISH SYSTEM

MPENG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	46	53.5	46	53.5
1 THRU 5	40	46.5	86	100.0

120.PERIODS..CONVERSION WITHIN A SYSTEM

MPCONVW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	34	39.1	34	39.1
1 THRU 5	52	59.8	86	98.9
6 THRU 10	1	1.1	87	100.0

121.PERIODS..CONVERSION BETWEEN SYSTEMS

MPCONVB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	28	32.2	28	32.2
1 THRU 5	59	67.8	87	100.0

122.PERIODS..ESTIMATING MEASUREMENTS

MPESTIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	35	39.8	35	39.8
1 THRU 5	52	59.1	87	98.9
6 THRU 10	1	1.1	88	100.0

123.PERIODS..PRECISION, ACCURACY, ERROR

MPPREC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	51	58.0	51	58.0
1 THRU 5	37	42.0	88	100.0

124.PERIODS..OPERATIONS WITH MEASUREMENT

MPOPER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	50	56.8	50	56.8
1 THRU 5	37	42.0	87	98.9
6 THRU 10	1	1.1	88	100.0

125.PERIODS..CONCEPT OF PI

MPPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	63	70.8	63	70.8
1 THRU 5	26	29.2	89	100.0

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MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

126.PERIODS..LINEAR MEASUREMENT

MPLINM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	36	40.9	36	40.9
1 THRU 5	52	59.1	88	100.0

127.PERIODS..PERIMETERS OF POLYGONS

MPPPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	37	42.0	37	42.0
1 THRU 5	50	56.8	87	98.9
6 THRU 10	1	1.1	88	100.0

128.PERIODS..CIRCUMFERENCE OF CIRCLES

MPCCIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	53	60.9	53	60.9
1 THRU 5	34	39.1	87	100.0

129.PERIODS..AREA OF TRIANGLES

MPATRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	20	22.5	20	22.5
1 THRU 5	68	76.4	88	98.9
6 THRU 10	1	1.1	89	100.0

130.PERIODS..AREA OF RECTANGLES

MPARECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
NONE	22	25.9	22	25.9
1 THRU 5	63	74.1	85	100.0

131.PERIODS..AREA OF PARALLELOGRAMS

MPAPARA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	20	23.3	20	23.3
1 THRU 5	66	76.7	86	100.0

132.PERIODS..AREA OF TRAPEZOIDS

MPATRAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	23	26.7	23	26.7
1 THRU 5	63	73.3	86	100.0

133.PERIODS..AREA OF CIRCLES

MPACIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	53	61.6	53	61.6
1 THRU 5	33	38.4	86	100.0

134.PERIODS..SURFACE AREA OF RECT SOLIDS

MPSRECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	21	24.1	21	24.1
1 THRU 5	66	75.9	87	100.0

135.PERIODS..SURFACE AREA OF CYLINDERS

MPSCYLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
NONE	48	56.5	48	56.5
1 THRU 5	37	43.5	85	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

136.PERIODS..SURFACE AREA OF SPHERES

MPSSPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	60	69.8	60	69.8
1 THRU 5	26	30.2	86	100.0

137.PERIODS..VOLUME OF RECTANGULAR SOLID

MPVRECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	12	14.0	12	14.0
1 THRU 5	74	86.0	86	100.0

138.PERIODS..VOLUME CYLINDERS AND PRISMS

MPVCYLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	22	25.3	22	25.3
1 THRU 5	65	74.7	87	100.0

139.PERIODS..VOLUME OF SPHERES

MPVSPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	62	71.3	62	71.3
1 THRU 5	25	28.7	87	100.0

140.PERIODS..VOLUME CONES AND PYRAMIDS

MPVCONE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	62	71.3	62	71.3
1 THRU 5	25	28.7	87	100.0

141.PERIODS..APPLY PROBLEM SOLVING

MPAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	8	9.2	8	9.2
1 THRU 5	79	90.8	87	100.0

142.OPINION..EMPHASIZE ESTIMATION

MOESTIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
STRONGLY AGREE	15	16.7	15	16.7
AGREE	60	66.7	75	83.3
UNDECIDED	5	5.6	80	88.9
DISAGREE	10	11.1	90	100.0

143.OPINION..EMPHASIS STANDRD INSTRUMENT

MOINSTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	23	25.3	23	25.3
AGREE	57	62.6	80	87.9
UNDECIDED	3	3.3	83	91.2
DISAGREE	8	8.8	91	100.0

144.OPINION..MEASUREMENTS NOT IN MATH

MOOTHER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	6	6.6	6	6.6
AGREE	16	17.6	22	24.2
UNDECIDED	16	17.6	38	41.8
DISAGREE	46	50.5	84	92.3
STRONGLY DISAGRE	7	7.7	91	100.0

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MEASUREMENT TOPIC - SPECIFIC QUESTIONNAIRE

145.OPINION..NONSTANDARD UNITS ESSENTIAL

MONSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	10	11.0	10	11.0
AGREE	38	41.8	48	52.7
UNDECIDED	19	20.9	67	73.6
DISAGREE	23	25.3	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

146.OPINION..TIME TEMP MASS WEIGHT..MATH

MOTTMW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	13	14.3	13	14.3
AGREE	52	57.1	65	71.4
UNDECIDED	10	11.0	75	82.4
DISAGREE	15	16.5	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

147.OPINION..EMPHASIZE FORMULAS

MOEMPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	7	7.7	7	7.7
AGREE	65	71.4	72	79.1
UNDECIDED	9	9.9	81	89.0
DISAGREE	8	8.8	89	97.8
STRONGLY DISAGRE	2	2.2	91	100.0

148.OPINION..COMPUTE WITH CALCULATORS

MOCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	2	2.2	2	2.2
AGREE	11	12.1	13	14.3
UNDECIDED	21	23.1	34	37.4
DISAGREE	43	47.3	77	84.6
STRONGLY DISAGRE	14	15.4	91	100.0

149.OPINION..BEST TO MEASURE THINGS

MOACTM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	38	41.8	38	41.8
AGREE	46	50.5	84	92.3
UNDECIDED	4	4.4	88	96.7
DISAGREE	3	3.3	91	100.0

150.OPINION..EXPECT TO KNOW FORMULAS

MOEXPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	24	26.4	24	26.4
AGREE	59	64.8	83	91.2
UNDECIDED	2	2.2	85	93.4
DISAGREE	5	5.5	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

Classroom Process Questionnaire

GEOMETRY

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

1.USE OF..STUDENT TEXTBOOK

GSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	86	94.5	86	94.5
OCCASIONALLY	4	4.4	90	98.9
RARELY OR NEVER	1	1.1	91	100.0

2.USE OF..OTHER PUBLISHED TEXT MATERIALS

GSOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	11	12.1	11	12.1
OCCASIONALLY	63	69.2	74	81.3
RARELY OR NEVER	17	18.7	91	100.0

3.USE OF..LOCALLY PRODUCED TEXT MATERIAL

GSLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	5	5.6	5	5.6
OCCASIONALLY	35	38.9	40	44.4
RARELY OR NEVER	50	55.6	90	100.0

4.USE OF..INDIVIDUALIZED MATERIALS

GSINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
OCCASIONALLY	8	8.9	8	8.9
RARELY OR NEVER	82	91.1	90	100.0

5.USE OF..FILMS, FILMSTRIPS, MODELS

GSFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
OCCASIONALLY	1	1.1	1	1.1
RARELY OR NEVER	88	98.9	89	100.0

6.USE OF..LABORATORY MATERIALS

GSLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	2	2.2	2	2.2
OCCASIONALLY	37	41.1	39	43.3
RARELY OR NEVER	51	56.7	90	100.0

7.TOPIC..ANGLES

GTANGLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	3	3.3	3	3.3
REVIEWED THEN EX	47	51.6	50	54.9
REVIEWED ONLY	26	28.6	76	83.5
NOT TAUGHT, ASSU	11	12.1	87	95.6
NOT TAUGHT, NOT	4	4.4	91	100.0

8.TOPIC..TRANSFORMATIONS

GTTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	15	16.5	15	16.5
REVIEWED THEN EX	18	19.8	33	36.3
REVIEWED ONLY	7	7.7	40	44.0
NOT TAUGHT, ASSU	4	4.4	44	48.4
NOT TAUGHT, NOT	47	51.6	91	100.0

9.TOPIC..VECTORS

GTVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	22	24.4	22	24.4
REVIEWED THEN EX	11	12.2	33	36.7
REVIEWED ONLY	4	4.4	37	41.1
NOT TAUGHT, ASSU	2	2.2	39	43.3
NOT TAUGHT, NOT	51	56.7	90	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

10.TOPIC..THE PYTHAGOREAN THEOREM

GTPYTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	80	88.9	80	88.9
REVIEWED THEN EX	3	3.3	83	92.2
NOT TAUGHT, ASSU	1	1.1	84	93.3
NOT TAUGHT, NOT	6	6.7	90	100.0

11.TOPIC..TRIANGLES AND THEIR PROPERTIES

GTTRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	41	45.1	41	45.1
REVIEWED THEN EX	33	36.3	74	81.3
REVIEWED ONLY	13	14.3	87	95.6
NOT TAUGHT, ASSU	2	2.2	89	97.8
NOT TAUGHT, NOT	2	2.2	91	100.0

12.TOPIC..POLYGONS AND THEIR PROPERTIES

GTPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	20	22.0	20	22.0
REVIEWED THEN EX	28	30.8	48	52.7
REVIEWED ONLY	12	13.2	60	65.9
NOT TAUGHT, ASSU	4	4.4	64	70.3
NOT TAUGHT, NOT	27	29.7	91	100.0

13.TOPIC..CIRCLES AND THEIR PROPERTIES

GTCIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	12	13.5	12	13.5
REVIEWED THEN EX	22	24.7	34	38.2
REVIEWED ONLY	20	22.5	54	60.7
NOT TAUGHT, ASSU	8	9.0	62	69.7
NOT TAUGHT, NOT	27	30.3	89	100.0

14.TOPIC..CONGRUENCE..GEOMETRIC FIGURES

GTCNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	65	71.4	65	71.4
REVIEWED THEN EX	22	24.2	87	95.6
REVIEWED ONLY	4	4.4	91	100.0

15.TOPIC..SIMILARITY..GEOMETRIC FIGURES

GTSIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	75	82.4	75	82.4
REVIEWED THEN EX	15	16.5	90	98.9
REVIEWED ONLY	1	1.1	91	100.0

16.TOPIC..PARALLEL LINES

GTPLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	61	67.0	61	67.0
REVIEWED THEN EX	27	29.7	88	96.7
REVIEWED ONLY	2	2.2	90	98.9
NOT TAUGHT, NOT	1	1.1	91	100.0

17.TOPIC..SPATIAL RELATIONS

GTSREL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
TAUGHT AS NEW CO	32	36.0	32	36.0
REVIEWED THEN EX	12	13.5	44	49.4
REVIEWED ONLY	5	5.6	49	55.1
NOT TAUGHT, ASSU	2	2.2	51	57.3
NOT TAUGHT, NOT	38	42.7	89	100.0

18.TOPIC..GEOMETRIC SOLIDS

GTSOLID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	53	58.9	53	58.9
REVIEWED THEN EX	17	18.9	70	77.8
REVIEWED ONLY	9	10.0	79	87.8
NOT TAUGHT, NOT	11	12.2	90	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

19.TOPIC..CONSTRUCTION..RULER COMPASS

GTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	20	22.2	20	22.2
REVIEWED THEN EX	34	37.8	54	60.0
REVIEWED ONLY	12	13.3	66	73.3
NOT TAUGHT, ASSU	12	13.3	78	86.7
NOT TAUGHT, NOT	12	13.3	90	100.0

20.TOPIC..PROOFS FORMAL DEDUCTIVE DEMOS

GTPROOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	64	71.1	64	71.1
REVIEWED THEN EX	10	11.1	74	82.2
REVIEWED ONLY	3	3.3	77	85.6
NOT TAUGHT, ASSU	1	1.1	78	86.7
NOT TAUGHT, NOT	12	13.3	90	100.0

21.TOPIC..TESSELLATIONS

GTTESS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	22	24.4	22	24.4
REVIEWED THEN EX	21	23.3	43	47.8
REVIEWED ONLY	8	8.9	51	56.7
NOT TAUGHT, ASSU	5	5.6	56	62.2
NOT TAUGHT, NOT	34	37.8	90	100.0

22.TOPIC..COORDINATE GEOMETRY

GTCOOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
TAUGHT AS NEW CO	30	33.3	30	33.3
REVIEWED THEN EX	2	2.2	32	35.6
REVIFWED ONLY	3	3.3	35	38.9
NOT TAUGHT, ASSU	1	1.1	36	40.0
NOT TAUGHT, NOT	54	60.0	90	100.0

23.APPROACH..INFORMAL EUCLIDEAN

GIAEUCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	28	30.8	28	30.8
USED	51	56.0	79	86.8
NOT USED	12	13.2	91	100.0

24.APPROACH..FORMAL EUCLIDEAN

GIAEUCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	47	51.6	47	51.6
USED	24	26.4	71	78.0
NOT USED	20	22.0	91	100.0

25.APPROACH..INFORMAL TRANSFORMATIONAL

GIATRNI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	23	25.3	23	25.3
USED	47	51.6	70	76.9
NOT USED	21	23.1	91	100.0

26.APPROACH..FORMAL TRANSFORMATIONAL

GIATRNF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	32	35.2	32	35.2
USED	35	38.5	67	73.6
NOT USED	24	26.4	91	100.0

27.APPROACH..COORDINATE

GIACOOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	22	24.2	22	24.2
USED	28	30.8	50	54.9
NOT USED	41	45.1	91	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

28.APPROACH..VECTOR

GIAVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	3	3.3	3	3.3
USED	20	22.2	23	25.6
NOT USED	67	74.4	90	100.0

29.AID USE..RULER.AND COMPASS

GAIDRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	61	67.0	61	67.0
OCCASIONALLY	27	29.7	88	96.7
RARELY OR NEVER	3	3.3	91	100.0

30.AID USE..PROTRACTOR

GAIDPRO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	48	52.7	48	52.7
OCCASIONALLY	35	38.5	83	91.2
RARELY OR NEVER	8	8.8	91	100.0

31.AID USE..SET SQUARE DRAFTMAN TRIANGLE

GAIDSSQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	19	21.1	19	21.1
OCCASIONALLY	51	56.7	70	77.8
RARELY OR NEVER	20	22.2	90	100.0

32.AID USE..GEOBOARDS

GAIDGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	18	19.8	19	20.9
RARELY OR NEVER	72	79.1	91	100.0

33.AID USE..PAPER CUTOUTS OR PATTERNS

GAIDCUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	18	19.8	18	19.8
OCCASIONALLY	50	54.9	68	74.7
RARELY OR NEVER	23	25.3	91	100.0

34.AID USE..MODELS OF SOLIDS

GAIDMOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	34	37.8	34	37.8
OCCASIONALLY	39	43.3	73	81.1
RARELY OR NEVER	17	18.9	90	100.0

35.AID USE..PAPER FOLDING

GAIDFLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	20	22.0	20	22.0
OCCASIONALLY	62	68.1	82	90.1
RARELY OR NEVER	9	9.9	91	100.0

36.AID USE..TRACING PAPER

GAIDTP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	18	19.8	18	19.8
OCCASIONALLY	52	57.1	70	76.9
RARELY OR NEVER	21	23.1	91	100.0

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37.AID USE..GRAPH PAPER

GAIDGP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	29	31.9	29	31.9
OCCASIONALLY	44	48.4	73	80.2
RARELY OR NEVER	18	19.8	91	100.0

38.AID USE..MIRROR OR TRNSLCNT REFLECTOR

GAIDMIR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
OCCASIONALLY	5	5.5	5	5.5
RARELY OR NEVER	86	94.5	91	100.0

39.AID USE..FILMSTRIPS.AND FILMS

GAIDFLM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	2	2.2	3	3.3
RARELY OR NEVER	88	96.7	91	100.0

40.AID USE..COMPUTER GRAPHICS

GAIDCGR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
RARELY OR NEVER	90	98.9	91	100.0

41.AID USE..KIT FOR CONSTRUCTING FIGURES

GAIDKIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	8	8.8	8	8.8
OCCASIONALLY	31	34.1	39	42.9
RARELY OR NEVER	52	57.1	91	100.0

42.TRANSLATE INTERP..INFORMAL

GMTRINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	12	13.2	12	13.2
USED	44	48.4	56	61.5
NOT USED	35	38.5	91	100.0

43.TRANSLATE INTERP..VECTOR MAP

GMTRVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	2	2.2	2	2.2
USED	12	13.2	14	15.4
NOT USED	77	84.6	91	100.0

44.TRANSLATE INTERP..PAIR OF POINTS MAP

GMTRPAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	8	8.8	8	8.8
USED	21	23.1	29	31.9
NOT USED	62	68.1	91	100.0

45.TRANSLATE INTERP..SYMMETRY COMPOSITN

GMTRSYM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	4	4.4	4	4.4
USED	25	27.5	29	31.9
NOT USED	62	68.1	91	100.0

46.TRANSLATE INTERP..A B AND X Y

GMTRXY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	2	2.2	2	2.2
USED	14	15.4	16	17.6
NOT USED	75	82.4	91	100.0

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47.TRANSLATE INTERP..BIJECTION

GMTRBIJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	7	7.8	7	7.8
USED	19	21.1	26	28.9
NOT USED	64	71.1	90	100.0

48.VECTOR INTERP..INFORMAL

GMIVINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	19	21.6	19	21.6
USED	20	22.7	39	44.3
NOT USED	49	55.7	88	100.0

49.VECTOR INTERP..TRANSLATION AB AS A B

GMIVAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	4	4.5	4	4.5
USED	18	20.5	22	25.0
NOT USED	66	75.0	88	100.0

50.VECTOR INTERP..POINT M TRANSLATION UM

GMIVMMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	3	3.4	3	3.4
USED	12	13.6	15	17.0
NOT USED	73	83.0	88	100.0

51.VECTOR INTERP..EQUIV CLASS TRANSLATN

GMIVEQT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
EMPHASIZED	2	2.3	2	2.3
USED	18	20.7	20	23.0
NOT USED	67	77.0	87	100.0

52.VECTOR INTERP..ORIENT DIRECTION LNGTH

GMIVODL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	12	13.6	12	13.6
USED	26	29.5	38	43.2
NOT USED	50	56.8	88	100.0

53.VECTOR INTERP..EQUIV CLASS MIDPOINTS

GMIVEQM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
EMPHASIZED	5	5.7	5	5.7
USED	23	26.1	28	31.8
NOT USED	60	68.2	88	100.0

54.EMPHASIZED..ANGLE SUM BY DISCOVERY

GMHDISE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	46	50.5	46	50.5
USED	34	37.4	80	87.9
NOT USED	11	12.1	91	100.0

55.IN TEXT..ANGLE SUM BY DISCOVERY

GMHDIST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
IN TEXT	60	68.2	60	68.2
NOT IN TEXT	28	31.8	88	100.0

56.KNOWN..ANGLE SUM BY DISCOVERY

GMHDISK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	14	77.8	14	77.8
NEGATIVE REASON	4	22.2	18	100.0

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56.SYLLABUS..ANGLE SUM BY DISCOVERY

GMHDISS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	12	85.7	12	85.7
NEGATIVE REASON	2	14.3	14	100.0

56.UNDERSTAND..ANGLE SUM BY DISCOVERY

GMHDISU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	63	.	.	.
POSITIVE REASON	35	97.2	35	97.2
NEGATIVE REASON	1	2.8	36	100.0

56.LIKED..ANGLE SUM BY DISCOVERY

GMHDISL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	11	91.7	11	91.7
NEGATIVE REASON	1	8.3	12	100.0

56.RELATED..ANGLE SUM BY DISCOVERY

GMHDISR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	17	100.0	17	100.0

56.FUTURE..ANGLE SUM BY DISCOVERY

GMHDISF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	15	93.8	15	93.8
NEGATIVE REASON	1	6.3	16	100.0

56.HARD..ANGLE SUM BY DISCOVERY

GMHDISH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	22	95.7	22	95.7
NEGATIVE REASON	1	4.3	23	100.0

57.TEXT EMPHASIS..ANGLE SUM BY DISCOVERY

GMHDISX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	17	81.0	17	81.0
NEGATIVE REASON	4	19.0	21	100.0

58.EMPHASIZED..ANGLE SUM BY DRAWING LINE

GMHLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	68	74.7	68	74.7
USED	17	18.7	85	93.4
NOT USED	6	6.6	91	100.0

59.IN TEXT..ANGLE SUM BY DRAWING LINE

GMHLINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	77	85.6	77	85.6
NOT IN TEXT	13	14.4	90	100.0

60.KNOWN..ANGLE SUM BY DRAWING LINE

GMHLINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	15	93.8	15	93.8
NEGATIVE REASON	1	6.3	16	100.0

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60.SYLLABUS..ANGLE SUM BY DRAWING LINE

GMHLINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	19	95.0	19	95.0
NEGATIVE REASON	1	5.0	20	100.0

60.UNDERSTAND..ANGLE SUM BY DRAWING LINE

GMHLINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	46	.	.	.
POSITIVE REASON	49	92.5	49	92.5
NEGATIVE REASON	4	7.5	53	100.0

60.LIKED..ANGLE SUM BY DRAWING LINE

GMHLINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	10	90.9	10	90.9
NEGATIVE REASON	1	9.1	11	100.0

60.RELATED..ANGLE SUM BY DRAWING LINE

GMHLINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7[illegible]	.	.	.
POSITIVE REASON	29	100.0	29	100.0

60.FUTURE..ANGLE SUM BY DRAWING LINE

GMHLINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	28	100.0	28	100.0

60.HARD..ANGLE SUM BY DRAWING LINE

GMHLINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	21	87.5	21	87.5
NEGATIVE REASON	3	12.5	24	100.0

61.TEXT EMPHASIS..ANGLE SUM DRAWING LINE

GMHLINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	26	92.9	26	92.9
NEGATIVE REASON	2	7.1	28	100.0

62.EMPHASIZED..ANGLE SUM BY CUTTING OFF

GMHCUTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	25	27.5	25	27.5
USED	40	44.0	65	71.4
NOT USED	26	28.6	91	100.0

63.IN TEXT..ANGLE SUM BY CUTTING OFF

GMHCUTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	44	48.9	44	48.9
NOT IN TEXT	46	51.1	90	100.0

64.KNOWN..ANGLE SUM BY CUTTING OFF

GMHCUTK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	7	35.0	7	35.0
NEGATIVE REASON	13	65.0	20	100.0

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64.SYLLABUS..ANGLE SUM BY CUTTING OFF

GMHCUTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	8	57.1	8	57.1
NEGATIVE REASON	6	42.9	14	100.0

64.UNDERSTAND..ANGLE SUM BY CUTTING OFF

GMHCUTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	23	95.8	23	95.8
NEGATIVE REASON	1	4.2	24	100.0

64.LIKED..ANGLE SUM BY CUTTING OFF

GMHCUTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	8	80.0	8	80.0
NEGATIVE REASON	2	20.0	10	100.0

64.RELATED..ANGLE SUM BY CUTTING OFF

GMHCUTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	10	90.9	10	90.9
NEGATIVE REASON	1	9.1	11	100.0

64.FUTURE..ANGLE SUM BY CUTTING OFF

GMHCUTF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	9	64.3	9	64.3
NEGATIVE REASON	5	35.7	14	100.0

64.HARD..ANGLE SUM BY CUTTING OFF

GMHCUTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	12	70.6	12	70.6
NEGATIVE REASON	5	29.4	17	100.0

65.TEXT EMPHASIS..ANGLE SUM CUTTING OFF

GMHCUTX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	12	42.9	12	42.9
NEGATIVE REASON	16	57.1	28	100.0

66.EMPHASIZED..ANGLE SUM BY MEASURING

GMHMSRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	31	34.1	31	34.1
USED	36	39.6	67	73.6
NOT USED	24	26.4	91	100.0

67.IN TEXT..ANGLE SUM BY MEASURING

GMHMSRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
IN TEXT	51	57.3	51	57.3
NOT IN TEXT	38	42.7	89	100.0

68.KNOWN..ANGLE SUM BY MEASURING

GMHMSRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	9	47.4	9	47.4
NEGATIVE REASON	10	52.6	19	100.0

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68.SYLLABUS..ANGLE SUM BY MEASURING

GMHMSRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	5	55.6	5	55.6
NEGATIVE REASON	4	44.4	9	100.0

68.UNDERSTAND..ANGLE SUM BY MEASURING

GMHMSRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	26	89.7	26	89.7
NEGATIVE REASON	3	10.3	29	100.0

68.LIKED..ANGLE SUM BY MEASURING

GMHMSRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	5	62.5	5	62.5
NEGATIVE REASON	3	37.5	8	100.0

68.RELATED..ANGLE SUM BY MEASURING

GMHMSRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	11	64.7	11	64.7
NEGATIVE REASON	6	35.3	17	100.0

68.FUTURE..ANGLE SUM BY MEASURING

GMHMSRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	11	78.6	11	78.6
NEGATIVE REASON	3	21.4	14	100.0

68.HARD..ANGLE SUM BY MEASURING

GMHMSRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	12	92.3	12	92.3
NEGATIVE REASON	1	7.7	13	100.0

69.TEXT EMPHASIS..ANGLE SUM BY MEASURING

GMHMSRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	8	50.0	8	50.0
NEGATIVE REASON	8	50.0	16	100.0

70.EMPHASIZED..ANGLE SUM BY FOLDING

GMHFLDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	39	42.9	39	42.9
USED	27	29.7	66	72.5
NOT USED	25	27.5	91	100.0

71.IN TEXT..ANGLE SUM BY FOLDING

GMHFLDT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	66	73.3	66	73.3
NOT IN TEXT	24	26.7	90	100.0

72.KNOWN..ANGLE SUM BY FOLDING

GMHFLDK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	11	52.4	11	52.4
NEGATIVE REASON	10	47.6	21	100.0

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72.SYLLABUS..ANGLE SUM BY FOLDING

GMHFLDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	12	75.0	12	75.0
NEGATIVE REASON	4	25.0	16	100.0

72.UNDERSTAND..ANGLE SUM BY FOLDING

GMHFLDU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	61	.	.	.
POSITIVE REASON	34	89.5	34	89.5
NEGATIVE REASON	4	10.5	38	100.0

72.LIKED..ANGLE SUM BY FOLDING

GMHFLDL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	13	86.7	13	86.7
NEGATIVE REASON	2	13.3	15	100.0

72.RELATED..ANGLE SUM BY FOLDING

GMHFLDR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	14	87.5	14	87.5
NEGATIVE REASON	2	12.5	16	100.0

72.FUTURE..ANGLE SUM BY FOLDING

GMHFLDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	11	73.3	11	73.3
NEGATIVE REASON	4	26.7	15	100.0

72.HARD..ANGLE SUM BY FOLDING

GMHFLDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	15	78.9	15	78.9
NEGATIVE REASON	4	21.1	19	100.0

73.TEXT EMPHASIS..ANGLE SUM BY FOLDING

GMHFLDX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	15	65.2	15	65.2
NEGATIVE REASON	8	34.8	23	100.0

74.EMPHASIZED..ANGLE SUM BY TRAVELLING

GMHTRVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	11	12.1	11	12.1
USED	26	28.6	37	40.7
NOT USED	54	59.3	91	100.0

75.IN TEXT..ANGLE SUM BY TRAVELLING

GMHTRVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	23	25.6	23	25.6
NOT IN TEXT	67	74.4	90	100.0

76.KNOWN..ANGLE SUM BY TRAVELLING

GMHTRVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	2	8.3	2	8.3
NEGATIVE REASON	22	91.7	24	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

76.SYLLABUS..ANGLE SUM BY TRAVELLING

GMHTRVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	4	22.2	4	22.2
NEGATIVE REASON	14	77.8	18	100.0

76.UNDERSTAND..ANGLE SUM BY TRAVELLING

GMHTRVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	7	26.9	7	26.9
NEGATIVE REASON	19	73.1	26	100.0

76.LIKED..ANGLE SUM BY TRAVELLING

GMHTRVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	5	55.6	5	55.6
NEGATIVE REASON	4	44.4	9	100.0

76.RELATED..ANGLE SUM BY TRAVELLING

GMHTRVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	2	28.6	2	28.6
NEGATIVE REASON	5	71.4	7	100.0

76.FUTURE..ANGLE SUM BY TRAVELLING

GMHTRVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	3	75.0	3	75.0
NEGATIVE REASON	1	25.0	4	100.0

76.HARD..ANGLE SUM BY TRAVELLING

GMHTRVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	3	33.3	3	33.3
NEGATIVE REASON	6	66.7	9	100.0

77.TEXT EMPHASIS..ANGLE SUM TRAVELLING

GMHTRVX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	3	11.5	3	11.5
NEGATIVE REASON	23	88.5	26	100.0

78.EMPHASIZED..ANGLE SUM BY TESSELATIONS

GMHTESE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	5	5.5	5	5.5
USED	15	16.5	20	22.0
NOT USED	71	78.0	91	100.0

79.IN TEXT..ANGLE SUM BY TESSELATIONS

GMHTEST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	9	10.0	9	10.0
NOT IN TEXT	81	90.0	90	100.0

80.KNOWN..ANGLE SUM BY TESSELATIONS

GMHTESK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	65	.	.	.
POSITIVE REASON	1	2.9	1	2.9
NEGATIVE REASON	33	97.1	34	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

80.SYLLABUS..ANGLE SUM BY TESSELATIONS

GMHTESS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	2	10.0	2	10.0
NEGATIVE REASON	18	90.0	20	100.0

80.UNDERSTAND..ANGLE SUM BY TESSELATIONS

GMHTESU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	3	20.0	3	20.0
NEGATIVE REASON	12	80.0	15	100.0

80.LIKED..ANGLE SUM BY TESSELATIONS

GMHTESL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
NEGATIVE REASON	3	100.0	3	100.0

80.RELATED..ANGLE SUM BY TESSELATIONS

GMHTESR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	2	22.2	2	22.2
NEGATIVE REASON	7	77.8	9	100.0

80.FUTURE..ANGLE SUM BY TESSELATIONS

GMHTESF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
POSITIVE REASON	1	25.0	1	25.0
NEGATIVE REASON	3	75.0	4	100.0

80.HARD..ANGLE SUM BY TESSELATIONS

GMHTESH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
NEGATIVE REASON	12	100.0	12	100.0

81.TEXT EMPHASIS..ANGLE SUM TESSELATIONS

GMHTESX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
POSITIVE REASON	1	2.9	1	2.9
NEGATIVE REASON	34	97.1	35	100.0

82.EMPHASIZED..ANGLE SUM BY R AND C

GMHRCE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	18	20.0	18	20.0
USED	36	40.0	54	60.0
NOT USED	36	40.0	90	100.0

83.IN TEXT..ANGLE SUM BY R AND C

GMHRCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
IN TEXT	28	31.8	28	31.8
NOT IN TEXT	60	68.2	88	100.0

84.KNOWN..ANGLE SUM BY R AND C

GMHRCK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	7	38.9	7	38.9
NEGATIVE REASON	11	61.1	18	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

84.SYLLABUS..ANGLE SUM BY R AND C

GMHRCS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	2	18.2	2	18.2
NEGATIVE REASON	9	81.8	11	100.0

84.UNDERSTAND..ANGLE SUM BY R AND C

GMHRCU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	14	77.8	14	77.8
NEGATIVE REASON	4	22.2	18	100.0

84.LIKED..ANGLE SUM BY R AND C

GMHRCL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	4	57.1	4	57.1
NEGATIVE REASON	3	42.9	7	100.0

84.RELATED..ANGLE SUM BY R AND C

GMHRCR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	10	83.3	10	83.3
NEGATIVE REASON	2	16.7	12	100.0

84.FUTURE..ANGLE SUM BY R AND C

GMHRCF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	7	77.8	7	77.8
NEGATIVE REASON	2	22.2	9	100.0

84.HARD..ANGLE SUM BY R AND C

GMHRCH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	9	56.3	9	56.3
NEGATIVE REASON	7	43.8	16	100.0

85.TEXT EMPHASIS..ANGLE SUM BY R AND C

GMHRCX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	3	13.6	3	13.6
NEGATIVE REASON	19	86.4	22	100.0

86.EMPHASIZED..PYTHAGOREAN BY MEASURING

GMPMSRE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	68	74.7	68	74.7
USED	12	13.2	80	87.9
NOT USED	11	12.1	91	100.0

87.IN TEXT..PYTHAGOREAN BY MEASURING

GMPMSRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
IN TEXT	76	83.5	76	83.5
NOT IN TEXT	15	16.5	91	100.0

88.KNOWN..PYTHAGOREAN BY MEASURING

GMPMSRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	19	90.5	19	90.5
NEGATIVE REASON	2	9.5	21	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

88.SYLLABUS..PYTHAGOREAN BY MEASURING

GMPMSRS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	23	92.0	23	92.0
NEGATIVE REASON	2	8.0	25	100.0

88.UNDERSTAND..PYTHAGOREAN BY MEASURING

GMPMSRU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
POSITIVE REASON	44	97.8	44	97.8
NEGATIVE REASON	1	2.2	45	100.0

88.LIKED..PYTHAGOREAN BY MEASURING

GMPMSRL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	11	78.6	11	78.6
NEGATIVE REASON	3	21.4	14	100.0

88.RELATED..PYTHAGOREAN BY MEASURING

GMPMSRR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	17	100.0	17	100.0

88.FUTURE..PYTHAGOREAN BY MEASURING

GMPMSRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
POSITIVE REASON	34	97.1	34	97.1
NEGATIVE REASON	1	2.9	35	100.0

88.HARD..PYTHAGOREAN BY MEASURING

GMPMSRH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	21	84.0	21	84.0
NEGATIVE REASON	4	16.0	25	100.0

89.TEXT EMPHASIS..PYTHAGOREAN MEASURING

GMPMSRX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	63	.	.	.
POSITIVE REASON	36	100.0	36	100.0

90.EMPHASIZED..PYTHAGOREAN BY DIAGRAMS

GMPDGME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	53	58.2	53	58.2
USED	20	22.0	73	80.2
NOT USED	18	19.8	91	100.0

91.IN TEXT..PYTHAGOREAN BY DIAGRAMS

GMPDGMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	46	51.1	46	51.1
NOT IN TEXT	44	48.9	90	100.0

92.KNOWN..PYTHAGOREAN BY DIAGRAMS

GMPDGMK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	17	81.0	17	81.0
NEGATIVE REASON	4	19.0	21	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

92.SYLLABUS..PYTHAGOREAN BY DIAGRAMS

GMPDGMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	17	89.5	17	89.5
NEGATIVE REASON	2	10.5	19	100.0

92.UNDERSTAND..PYTHAGOREAN BY DIAGRAMS

GMPDGMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
POSITIVE REASON	40	90.9	40	90.9
NEGATIVE REASON	4	9.1	44	100.0

92.LIKED..PYTHAGOREAN BY DIAGRAMS

GMPDGML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	9	100.0	9	100.0

92.RELATED..PYTHAGOREAN BY DIAGRAMS

GMPDGMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	16	94.1	16	94.1
NEGATIVE REASON	1	5.9	17	100.0

92.FUTURE..PYTHAGOREAN BY DIAGRAMS

GMPDGMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	23	100.0	23	100.0

92.HARD..PYTHAGOREAN BY DIAGRAMS

GMPDGMH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	18	94.7	18	94.7
NEGATIVE REASON	1	5.3	19	100.0

93.TEXT EMPHASIS..PYTHAGOREAN DIAGRAMS

GMPDGMX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	19	59.4	19	59.4
NEGATIVE REASON	13	40.6	32	100.0

94.EMPHASIZED..PYTHAGOREAN BY FORMULA

GMPFRME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	54	59.3	54	59.3
USED	25	27.5	79	86.8
NOT USED	12	13.2	91	100.0

95.IN TEXT..PYTHAGOREAN BY FORMULA

GMPFRMT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
IN TEXT	78	87.6	78	87.6
NOT IN TEXT	11	12.4	89	100.0

96.KNOWN..PYTHAGOREAN BY FORMULA

GMPFRMK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	78	.	.	.
POSITIVE REASON	14	66.7	14	66.7
NEGATIVE REASON	7	33.3	21	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

96.SYLLABUS..PYTHAGOREAN BY FORMULA

GMPFRMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	81			
POSITIVE REASON	17	94.4	17	94.4
NEGATIVE REASON	1	5.6	18	100.0

96.UNDERSTAND..PYTHAGOREAN BY FORMULA

GMPFRMU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	61			
POSITIVE REASON	32	84.2	32	84.2
NEGATIVE REASON	6	15.8	38	100.0

96.LIKED..PYTHAGOREAN BY FORMULA

GMPFRML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	87			
POSITIVE REASON	10	83.3	10	83.3
NEGATIVE REASON	2	16.7	12	100.0

96.RELATED..PYTHAGOREAN BY FORMULA

GMPFRMR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	82			
POSITIVE REASON	14	82.4	14	82.4
NEGATIVE REASON	3	17.6	17	100.0

96.FUTURE..PYTHAGOREAN BY FORMULA

GMPFRMF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	70			
POSITIVE REASON	27	93.1	27	93.1
NEGATIVE REASON	2	6.9	29	100.0

96.HARD..PYTHAGOREAN BY FORMULA

GMPFRMH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	77			
POSITIVE REASON	21	95.5	21	95.5
NEGATIVE REASON	1	4.5	22	100.0

97.TEXT EMPHASIS..PYTHAGOREAN BY FORMULA

GMPFRMX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	73			
POSITIVE REASON	24	92.3	24	92.3
NEGATIVE REASON	2	7.7	26	100.0

98.EMPHASIZED..PYTHAGOREAN BY HISTORY

GMPHISE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8			
EMPHASIZED	15	16.5	15	16.5
USED	50	54.9	65	71.4
NOT USED	26	28.6	91	100.0

99.IN TEXT..PYTHAGOREAN BY HISTORY

GMPHIST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
IN TEXT	56	62.2	56	62.2
NOT IN TEXT	34	37.8	90	100.0

100.KNOWN..PYTHAGOREAN BY HISTORY

GMPHISK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	80			
POSITIVE REASON	5	26.3	5	26.3
NEGATIVE REASON	14	73.7	19	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

100.SYLLABUS..PYTHAGOREAN BY HISTORY

GMPHISS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	93			
POSITIVE REASON	3	50.0	3	50.0
NEGATIVE REASON	3	50.0	6	100.0

100.UNDERSTAND..PYTHAGOREAN BY HISTORY

GMPHISU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	93			
POSITIVE REASON	6	100.0	6	100.0

100.LIKED..PYTHAGOREAN BY HISTORY

GMPHISL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	93			
POSITIVE REASON	5	83.3	5	83.3
NEGATIVE REASON	1	16.7	6	100.0

100.RELATED..PYTHAGOREAN BY HISTORY

GMPHISR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	91			
POSITIVE REASON	4	50.0	4	50.0
NEGATIVE REASON	4	50.0	8	100.0

100.FUTURE..PYTHAGOREAN BY HISTORY

GMPHISF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92			
POSITIVE REASON	5	71.4	5	71.4
NEGATIVE REASON	2	28.6	7	100.0

100.HARD..PYTHAGOREAN BY HISTORY

GMPHISH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92			
POSITIVE REASON	5	71.4	5	71.4
NEGATIVE REASON	2	28.6	7	100.0

101.TEXT EMPHASIS..PYTHAGOREAN HISTORY

GMPHISX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	82			
POSITIVE REASON	5	29.4	5	29.4
NEGATIVE REASON	12	70.6	17	100.0

102.EMPHASIZED..PYTHAGOREAN BY PHY MODEL

GMPPHYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8			
EMPHASIZED	8	8.8	8	8.8
USED	25	27.5	33	36.3
NOT USED	58	63.7	91	100.0

103.IN TEXT..PYTHAGOREAN BY PHY MODEL

GMPPHYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	9			
IN TEXT	14	15.6	14	15.6
NOT IN TEXT	76	84.4	90	100.0

104.KNOWN..PYTHAGOREAN BY PHY MODEL

GMPPHYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	81			
NEGATIVE REASON	18	100.0	18	100.0

104.SYLLABUS..PYTHAGOREAN BY PHY MODEL

GMPPHYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	88			
NEGATIVE REASON	11	100.0	11	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

104.UNDERSTAND..PYTHAGOREAN BY PHY MODEL

GMPPHYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	5	15.6	5	15.6
NEGATIVE REASON	27	84.4	32	100.0

104.LIKED..PYTHAGOREAN BY PHY MODEL

GMPPHYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
NEGATIVE REASON	3	100.0	3	100.0

104.RELATED..PYTHAGOREAN BY PHY MODEL

GMPPHYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	2	28.6	2	28.6
NEGATIVE REASON	5	71.4	7	100.0

104.FUTURE..PYTHAGOREAN BY PHY MODEL

GMPPHYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
POSITIVE REASON	3	50.0	3	50.0
NEGATIVE REASON	3	50.0	6	100.0

104.HARD..PYTHAGOREAN BY PHY MODEL

GMPPHYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
NEGATIVE REASON	16	100.0	16	100.0

105.TEXT EMPHASIS..PYTHAGOREAN PHY MODEL

GMPPHYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	2	6.9	2	6.9
NEGATIVE REASON	27	93.1	29	100.0

106.EMPHASIZED..PYTHAGOREAN DDUCT ALGB

GMPDALE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	8	8.8	8	8.8
USED	14	15.4	22	24.2
NOT USED	69	75.8	91	100.0

107.IN TEXT..PYTHAGOREAN BY DDUCT ALGB

GMPDALT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	15	16.7	15	16.7
NOT IN TEXT	75	83.3	90	100.0

108.KNOWN..PYTHAGOREAN BY DDUCT ALGB

GMPDALK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	1	7.1	1	7.1
NEGATIVE REASON	13	92.9	14	100.0

108.SYLLABUS..PYTHAGOREAN DDUCT ALGB

GMPDALS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	2	14.3	2	14.3
NEGATIVE REASON	12	85.7	14	100.0

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108.UNDERSTAND..PYTHAGOREAN DDUCT ALGB

GMPDALU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	3	9.7	3	9.7
NEGATIVE REASON	28	90.3	31	100.0

108.LIKED..PYTHAGOREAN BY DDUCT ALGB

GMPDALL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	3	42.9	3	42.9
NEGATIVE REASON	4	57.1	7	100.0

108.RELATED..PYTHAGOREAN BY DDUCT ALGB

GMPDALR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	1	11.1	1	11.1
NEGATIVE REASON	8	88.9	9	100.0

108.FUTURE..PYTHAGOREAN BY DDUCT ALGB

GMPDALF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	[illegible]	.	.	.
POSITIVE REASON	3	50.0	3	50.0
NEGATIVE REASON	3	50.0	6	100.0

108.HARD..PYTHAGOREAN BY DDUCT ALGB

GMPDALH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	3	11.5	3	11.5
NEGATIVE REASON	23	88.5	26	100.0

109.TEXT EMPHASIS..PYTHAGOREN DDUCT ALGB

GMPDALX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	64	.	.	.
POSITIVE REASON	2	5.7	2	5.7
NEGATIVE REASON	33	94.3	35	100.0

110.EMPHASIZED..PYTHAGOREAN DDUCT AREA

GMPDARE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
EMPHASIZED	15	16.7	15	16.7
USED	18	20.0	33	36.7
NOT USED	57	63.3	90	100.0

111.IN TEXT..PYTHAGOREAN BY DDUCT AREA

GMPDART	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	21	23.3	21	23.3
NOT IN TEXT	69	76.7	90	100.0

112.KNOWN..PYTHAGOREAN BY DDUCT AREA

GMPDARK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	4	28.6	4	28.6
NEGATIVE REASON	10	71.4	14	100.0

112.SYLLABUS..PYTHAGOREAN BY DDUCT AREA

GMPDARS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	3	23.1	3	23.1
NEGATIVE REASON	10	76.9	13	100.0

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112.UNDERSTAND..PYTHAGOREAN DDUCT AREA

GMPDARU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	5	16.1	5	16.1
NEGATIVE REASON	26	83.9	31	100.0

112.LIKED..PYTHAGOREAN BY DDUCT AREA

GMPDARL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
NEGATIVE REASON	3	100.0	3	100.0

112.RELATED..PYTHAGOREAN BY DDUCT AREA

GMPDARR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	2	22.2	2	22.2
NEGATIVE REASON	7	77.8	9	100.0

112.FUTURE..PYTHAGOREAN BY DDUCT AREA

GMPDARF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	8	88.9	8	88.9
NEGATIVE REASON	1	11.1	9	100.0

112.HARD..PYTHAGOREAN BY DDUCT AREA

GMPDARH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	4	26.7	4	26.7
NEGATIVE REASON	11	73.3	15	100.0

113.TEXT EMPHASIS..PYTHAGOREN DDUCT AREA

GMPDARX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	3	9.7	3	9.7
NEGATIVE REASON	28	90.3	31	100.0

114.CNGRNT TRIANGLES..DEF. PROPERTIES

GMCTDEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	82	91.1	82	91.1
OCCASIONALLY	8	8.9	90	100.0

115.CNGRNT TRIANGLES..GRAPH TRACNG PAPER

GMCTPAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	29	32.2	29	32.2
OCCASIONALLY	44	48.9	73	81.1
RARELY OR NEVER	17	18.9	90	100.0

116.CNGRNT TRIANGLES..MEASUREMENT

GMCTMSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	21	23.3	21	23.3
OCCASIONALLY	54	60.0	75	83.3
RARELY OR NEVER	15	16.7	90	100.0

117.CNGRNT TRIANGLES..RULERS AND COMPASS

GMCTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	32	35.6	32	35.6
OCCASIONALLY	36	40.0	68	75.6
RARELY OR NEVER	22	24.4	90	100.0

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118.CNGRNT TRIANGLES..GEOBOARD

GMCTGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
OCCASIONALLY	10	11.1	10	11.1
RARELY OR NEVER	80	88.9	90	100.0

119.CNGRNT TRIANGLES..ENVIRONMENT

GMCTENV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	7	7.8	7	7.8
OCCASIONALLY	32	35.6	39	43.3
RARELY OR NEVER	51	56.7	90	100.0

120.CNGRNT TRIANGLES..TRANSFORMATIONS

GMCTTRN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	2	2.2	2	2.2
OCCASIONALLY	11	12.2	13	14.4
RARELY OR NEVER	77	85.6	90	100.0

121.SMLR TRIANGLES..DEF. PROPERTIES

GMSTDEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	72	79.1	72	79.1
OCCASIONALLY	17	18.7	89	97.8
RARELY OR NEVER	2	2.2	91	100.0

122.SMLR TRIANGLES..GRAPH TRACING PAPER

GMSTPAP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	19	20.9	19	20.9
OCCASIONALLY	41	45.1	60	65.9
RARELY OR NEVER	31	34.1	91	100.0

123.SMLR TRIANGLES..MEASUREMENT

GMSTMSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	27	29.7	27	29.7
OCCASIONALLY	48	52.7	75	82.4
RARELY OR NEVER	16	17.6	91	100.0

124.SMLR TRIANGLES..RULER AND COMPASS

GMSTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	30	33.0	30	33.0
OCCASIONALLY	41	45.1	71	78.0
RARELY OR NEVER	20	22.0	91	100.0

125.SMLR TRIANGLES..GEOBOARD

GMSTGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	9	9.9	10	11.0
RARELY OR NEVER	81	89.0	91	100.0

126.SMLR TRIANGLES..ENVIRONMENT

GMSTENV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	34	37.4	34	37.4
OCCASIONALLY	40	44.0	74	81.3
RARELY OR NEVER	17	18.7	91	100.0

127.SMLR TRIANGLES..DILATIONS

GMSTDIL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	20	22.0	20	22.0
OCCASIONALLY	37	40.7	57	62.6
RARELY OR NEVER	34	37.4	91	100.0

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128.PARALLEL LINES..DEFINITION EXAMPLES

GMLLDEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	82	90.1	82	90.1
OCCASIONALLY	9	9.9	91	100.0

129.PARALLEL LINES..PAPER FOLDING

GMLLFLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	12	13.2	12	13.2
OCCASIONALLY	41	45.1	53	58.2
RARELY OR NEVER	38	41.8	91	100.0

130.PARALLEL LINES..MEASUREMENT

GMLLMSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	26	28.6	26	28.6
OCCASIONALLY	43	47.3	69	75.8
RARELY OR NEVER	22	24.2	91	100.0

131.PARALLEL LINES..RULER AND COMPASS

GMLLRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
FREQUENTLY	37	41.1	37	41.1
OCCASIONALLY	35	38.9	72	80.0
RARELY OR NEVER	18	20.0	90	100.0

132.PARALLEL LINES..TESSELLATIONS

GMLLTES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	2	2.2	2	2.2
OCCASIONALLY	13	14.3	15	16.5
RARELY OR NEVER	76	83.5	91	100.0

133.PARALLEL LINES..GEOBOARDS

GMLLGEO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
OCCASIONALLY	10	11.0	10	11.0
RARELY OR NEVER	81	89.0	91	100.0

134.PARALLEL LINES..STRGHTEDGE SET SQRS

GMLLSSQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	18	19.8	18	19.8
OCCASIONALLY	43	47.3	61	67.0
RARELY OR NEVER	30	33.0	91	100.0

135.PARALLEL LINES..ENVIRONMENT

GMLLENV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	46	50.5	46	50.5
OCCASIONALLY	38	41.8	84	92.3
RARELY OR NEVER	7	7.7	91	100.0

136.PARALLEL LINES..TRANSLATIONS

GMLLTRN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	5	5.5	5	5.5
OCCASIONALLY	31	34.1	36	39.6
RARELY OR NEVER	55	60.4	91	100.0

137.PARALLEL LINES..REFLECTIONS

GMLLREF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
FREQUENTLY	1	1.1	1	1.1
OCCASIONALLY	8	8.8	9	9.9
RARELY OR NEVER	82	90.1	91	100.0

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138.PARALLEL LINES..ROTATIONS

GMLLROT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
OCCASIONALLY	9	9.9	9	9.9
RARELY OR NEVER	82	90.1	91	100.0

139.SPATIAL RLTNS..PRE-MADE 2 D PATTERN

GMSRPAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
FREQUENTLY	15	17.0	15	17.0
OCCASIONALLY	26	29.5	41	46.6
RARELY OR NEVER	47	53.4	88	100.0

140.SPATIAL RLTNS..DESIGN 2 D PATTERN

GMSRDGN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
FREQUENTLY	9	10.3	9	10.3
OCCASIONALLY	29	33.3	38	43.7
RARELY OR NEVER	49	56.3	87	100.0

141.SPATIAL RLTNS..2 D DRAWING

GMSRDRW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
FREQUENTLY	17	19.3	17	19.3
OCCASIONALLY	35	39.8	52	59.1
RARELY OR NEVER	36	40.9	88	100.0

142.SPATIAL RLTNS..DRAWNG PLANS ELEVATNS

GMSRPLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
FREQUENTLY	15	17.0	15	17.0
OCCASIONALLY	26	29.5	41	46.6
RARELY OR NEVER	47	53.4	88	100.0

143.SPATIAL RLTNS..INTERSECTN WITH PLANE

GMSRINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
FREQUENTLY	5	5.7	5	5.7
OCCASIONALLY	19	21.6	24	27.3
RARELY OR NEVER	64	72.7	88	100.0

144.SPATIAL RLTNS..NUMERICAL ALGEBRAIC

GMSRALG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
FREQUENTLY	9	10.6	9	10.6
OCCASIONALLY	21	24.7	30	35.3
RARELY OR NEVER	55	64.7	85	100.0

145.SPATIAL RLTNS..BUILD MODEL PLANES

GMSRBLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
OCCASIONALLY	8	9.4	8	9.4
RARELY OR NEVER	77	90.6	85	100.0

146.SPATIAL RLTNS..PREDICT SHAPE SHADOWS

GMSRSHD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	14	.	.	.
FREQUENTLY	3	3.5	3	3.5
OCCASIONALLY	13	15.3	16	18.8
RARELY OR NEVER	69	81.2	85	100.0

147.AVERAGE LENGTH MATH PERIOD MINUTES

GPSIZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
21 THRU 40	42	46.2	42	46.2
41 THRU 60	49	53.8	91	100.0

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148.PERIODS..TOTAL IN GEOMETRY

GPTOTAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
1 THRU 30	75	83.3	75	83.3
31 THRU 40	7	7.8	82	91.1
41 THRU 998	8	8.9	90	100.0

149.PERIODS..CONCEPT OF ANGLES

GPANGLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	12	13.6	12	13.6
1 THRU 5	76	86.4	88	100.0

150.PERIODS..TRANSFORMATIONS

GPTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	61	69.3	61	69.3
1 THRU 5	27	30.7	88	100.0

151.PERIODS..VECTORS

GPVEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	59	68.6	59	68.6
1 THRU 5	27	31.4	86	100.0

152.PERIODS..THE PYTHAGOREAN THEOREM

GPPYTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
0	4	4.5	4	4.5
1	17	19.1	21	23.6
2	29	32.6	50	56.2
3	19	21.3	69	77.5
4	16	18.0	85	95.5
5	4	4.5	89	100.0

153.PERIODS..TRIANGLES..THEIR PROPERTIES

GPTRI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	4	4.5	4	4.5
1 THRU 5	85	95.5	89	100.0

154.PERIODS..POLYGONS..THEIR PROPERTIES

GPPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	26	29.2	26	29.2
1 THRU 5	63	70.8	89	100.0

155.PERIODS..CIRCLES..THEIR PROPERTIES

GPCIRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	39	44.8	39	44.8
1 THRU 5	48	55.2	87	100.0

156.PERIODS..CONGRUENCE OF GEOM. FIGURES

GPCNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	6	6.8	6	6.8
1 THRU 5	72	81.8	78	88.6
6 THRU 10	10	11.4	88	100.0

157.PERIODS..SIMILARITY OF GEOM. FIGURES

GPSIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	85	94.4	86	95.6
6 THRU 10	4	4.4	90	100.0

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158.PERIODS..PARALLEL LINES

GPPLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	83	94.3	84	95.5
6 THRU 10	3	3.4	87	98.9
11 THRU 20	1	1.1	88	100.0

159.PERIODS..SPATIAL RELATIONS

GPSREL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	40	46.0	40	46.0
1 THRU 5	46	52.9	86	98.9
6 THRU 10	1	1.1	87	100.0

160.PERIODS..GEOMETRIC SOLIDS

GPSOLID	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	12	13.8	12	13.8
1 THRU 5	73	83.9	85	97.7
6 THRU 10	2	2.3	87	100.0

161.PERIODS..CONSTRUCTIONS RULER COMPASS

GPRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	27	30.7	27	30.7
1 THRU 5	61	69.3	88	100.0

162.PERIODS..PROOFS FORMAL DEDUCTV DEMOS

GPPROOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
NONE	19	21.6	19	21.6
1 THRU 5	68	77.3	87	98.9
6 THRU 10	1	1.1	88	100.0

163.PERIODS..TESSELLATIONS

GPTESS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	13	.	.	.
NONE	69	80.2	69	80.2
1 THRU 5	17	19.8	86	100.0

164.PERIODS..COORDINATE GEOMETRY

GPCOOR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	58	66.7	58	66.7
1 THRU 5	29	33.3	87	100.0

165.PERIODS..APPLICATIONS PROBLEM SOLVNG

GPAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	12	.	.	.
NONE	14	16.1	14	16.1
1 THRU 5	70	80.5	84	96.6
6 THRU 10	3	3.4	87	100.0

166.OPINION..OBJECTIVE MODEL REAL WORLD

GOMREAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	16	17.6	16	17.6
AGREE	56	61.5	72	79.1
UNDECIDED	14	15.4	86	94.5
DISAGREE	5	5.5	91	100.0

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GEOMETRY TOPIC - SPECIFIC QUESTIONNAIRE

167.OPINION..GOAL DEDUCTIVE PROCEDURES

GODEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	3	3.3	3	3.3
AGREE	52	57.1	55	60.4
UNDECIDED	15	16.5	70	76.9
DISAGREE	19	20.9	89	97.8
STRONGLY DISAGRE	2	2.2	91	100.0

168.OPINION..OBJECTIVE IS FORMAL DEMO

GOFDEMO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	15	16.5	15	16.5
AGREE	71	78.0	86	94.5
UNDECIDED	3	3.3	89	97.8
DISAGREE	2	2.2	91	100.0

169.OPINION..ORDER OF AXIOMATIC APPROACH

GOAXIOM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	10	11.0	10	11.0
AGREE	53	58.2	63	69.2
UNDECIDED	18	19.8	81	89.0
DISAGREE	9	9.9	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

170.OPINION..INTUITIVE STYLE MEANS MORE

GOINTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
STRONGLY AGREE	10	11.1	10	11.1
AGREE	45	50.0	55	61.1
UNDECIDED	9	10.0	64	71.1
DISAGREE	25	27.8	89	98.9
STRONGLY DISAGRE	1	1.1	90	100.0

171.OPINION..TEACH WITH TRANSFORMATIONS

GOTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	5	5.5	5	5.5
AGREE	37	40.7	42	46.2
UNDECIDED	31	34.1	73	80.2
DISAGREE	17	18.7	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

172.OPINION..USE MODELS AIDS ESSENTIAL

GOAIDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
STRONGLY AGREE	30	33.3	30	33.3
AGREE	55	61.1	85	94.4
UNDECIDED	2	2.2	87	96.7
DISAGREE	3	3.3	90	100.0

173.OPINION..3 D FOR MEASUREMENT ONLY

GOTHRD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	15	16.5	15	16.5
AGREE	46	50.5	61	67.0
UNDECIDED	22	24.2	83	91.2
DISAGREE	8	8.8	91	100.0

174.OPINION..CONCEPT OF TRANSLATION

GOCPTTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	3	3.3	3	3.3
AGREE	46	50.5	49	53.8
UNDECIDED	25	27.5	74	81.3
DISAGREE	15	16.5	89	97.8
STRONGLY DISAGRE	2	2.2	91	100.0

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175.OPINION..INCLUDE CONCEPT OF VECTOR

GOCPTVC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	3	3.3	3	3.3
AGREE	39	42.9	42	46.2
UNDECIDED	27	29.7	69	75.8
DISAGREE	19	20.9	88	96.7
STRONGLY DISAGRE	3	3.3	91	100.0

176.OPINION..DELAY STUDY OF VECTORS

GODELVC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	10	11.0	10	11.0
AGREE	29	31.9	39	42.9
UNDECIDED	24	26.4	63	69.2
DISAGREE	25	27.5	88	96.7
STRONGLY DISAGRE	3	3.3	91	100.0

177.OPINION..VISUALIZATION ACTIVITIES

GOVISUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	6	6.6	6	6.6
AGREE	56	61.5	62	68.1
UNDECIDED	21	23.1	83	91.2
DISAGREE	7	7.7	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

178.OPINION..POLYGONS..TRNGL & SQR ONLY

GOPOLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	5	5.5	5	5.5
AGREE	47	51.6	52	57.1
UNDECIDED	9	9.9	61	67.0
DISAGREE	29	31.9	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

179.OPINION..SKILL IN RULER COMPASS

GORC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	16	17.6	16	17.6
AGREE	62	68.1	78	85.7
UNDECIDED	5	5.5	83	91.2
DISAGREE	8	8.8	91	100.0

180.OPINION..DEMO OF PROOFS ESSENTIAL

GOPROOF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	5	5.5	5	5.5
AGREE	49	53.8	54	59.3
UNDECIDED	13	14.3	67	73.6
DISAGREE	23	25.3	90	98.9
STRONGLY DISAGRE	1	1.1	91	100.0

181.OPINION..GEOM. FOR HIGHER EDUCATION

GOHEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	1	1.1	1	1.1
AGREE	19	20.9	20	22.0
UNDECIDED	15	16.5	35	38.5
DISAGREE	52	57.1	87	95.6
STRONGLY DISAGRE	4	4.4	91	100.0

182.OPINION..DELAY PROOF OF THEOREMS

GODELPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
STRONGLY AGREE	5	5.5	5	5.5
AGREE	25	27.5	30	33.0
UNDECIDED	17	18.7	47	51.6
DISAGREE	39	42.9	86	94.5
STRONGLY DISAGRE	5	5.5	91	100.0

Classroom Process Questionnaire

ALGEBRA

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
ALGEBRA TOPIC - SPECIFIC QUESTIONNAIRE

1.USE OF..STUDENT TEXTBOOK

ASTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
FREQUENTLY	90	96.8	90	96.8
OCCASIONALLY	2	2.2	92	98.9
RARELY OR NEVER	1	1.1	93	100.0

2.USE OF..OTHER PUBLISHED TEXT MATERIAL

ASOTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
FREQUENTLY	12	12.9	12	12.9
OCCASIONALLY	62	66.7	74	79.6
RARELY OR NEVER	19	20.4	93	100.0

3.USE OF..LOCALLY PRODUCED TEXT MATERIAL

ASLOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
FREQUENTLY	3	3.3	3	3.3
OCCASIONALLY	42	45.7	45	48.9
RARELY OR NEVER	47	51.1	92	100.0

4.USE OF..INDIVIDUALIZED MATERIALS

ASINDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
OCCASIONALLY	9	9.7	9	9.7
RARELY OR NEVER	84	90.3	93	100.0

5.USE OF..FILMS, FILMSTRIPS, MODELS

ASFILM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
RARELY OR NEVER	93	100.0	93	100.0

6.USE OF..LABORATORY MATERIALS

ASLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
OCCASIONALLY	32	34.4	32	34.4
RARELY OR NEVER	61	65.6	93	100.0

7.TOPIC..CONCEPT OF POS AND NEG INTEGERS

ATIPN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	35	38.0	35	38.0
REVIEWED THEN EX	52	56.5	87	94.6
REVIEWED ONLY	5	5.4	92	100.0

8.TOPIC..ADDITION OF INTEGERS

ATIADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	44	47.8	44	47.8
REVIEWED THEN EX	43	46.7	87	94.6
REVIEWED ONLY	5	5.4	92	100.0

9.TOPIC..SUBTRACTION OF INTEGERS

ATISUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	57	62.0	57	62.0
REVIEWED THEN EX	32	34.8	89	96.7
REVIEWED ONLY	3	3.3	92	100.0

10 TOPIC..MULTIPLICATION OF INTEGERS

ATIMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	46	50.0	46	50.0
REVIEWED THEN EX	40	43.5	86	93.5
REVIEWED ONLY	5	5.4	91	98.9
NOT TAUGHT, ASSU	1	1.1	92	100.0

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ALGEBRA TOPIC - SPECIFIC QUESTIONNAIRE

11.TOPIC..DIVISION OF INTEGERS

ATIDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
TAUGHT AS NEW CO	46	50.5	46	50.5
REVIEWED THEN EX	40	44.0	86	94.5
REVIEWED ONLY	4	4.4	90	98.9
NOT TAUGHT, ASSU	1	1.1	91	100.0

12.TOPIC..STRUCTURAL PROPS..INTEGER SET

ATISTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	72	78.3	72	78.3
REVIEWED THEN EX	18	19.6	90	97.8
REVIEWED ONLY	1	1.1	91	98.9
NOT TAUGHT, NOT	1	1.1	92	100.0

13.TOPIC..ORDER RELATIONS OF INTEGERS

ATIORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	37	40.2	37	40.2
REVIEWED THEN EX	41	44.6	78	84.8
REVIEWED ONLY	7	7.6	85	92.4
NOT TAUGHT, NOT	7	7.6	92	100.0

14.TOPIC..EVALUATIONS OF FORMULAS

ATEEVAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	49	53.3	49	53.3
REVIEWED THEN EX	35	38.0	84	91.3
REVIEWED ONLY	4	4.3	88	95.7
NOT TAUGHT, ASSU	1	1.1	89	96.7
NOT TAUGHT, NOT	3	3.3	92	100.0

15.TOPIC..DERIVING FORMULAS OR EQUATIONS

ATEDERV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	47	51.1	47	51.1
REVIEWED THEN EX	23	25.0	70	76.1
REVIEWED ONLY	5	5.4	75	81.5
NOT TAUGHT, ASSU	2	2.2	77	83.7
NOT TAUGHT, NOT	15	16.3	92	100.0

16.TOPIC..SOLVING LITERAL EQUATIONS

ATESLIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	58	63.0	58	63.0
REVIEWED THEN EX	13	14.1	71	77.2
REVIEWED ONLY	2	2.2	73	79.3
NOT TAUGHT, ASSU	1	1.1	74	80.4
NOT TAUGHT, NOT	18	19.6	92	100.0

17.TOPIC..SOLVING LINEAR EQUATIONS

ATESLIN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
TAUGHT AS NEW CO	69	75.0	69	75.0
REVIEWED THEN EX	19	20.7	88	95.7
REVIEWED ONLY	1	1.1	89	96.7
NOT TAUGHT, ASSU	1	1.1	90	97.8
NOT TAUGHT, NOT	2	2.2	92	100.0

18.EMPHASIZED..INTEGERS BY NUMBER RAY

AMIRAYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	73	78.5	73	78.5
USED	19	20.4	92	98.9
NOT USED	1	1.1	93	100.0

19.IN TEXT..INTEGERS BY NUMBER RAY

AMIRAYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	86	93.5	86	93.5
NOT IN TEXT	6	6.5	92	100.0

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20.KNOWN..INTEGERS BY NUMBER RAY

AMIRAYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	83			
POSITIVE REASON	16	100.0	16	100.0

20.SYLLABUS..INTEGERS BY NUMBER RAY

AMIRAYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	71			
POSITIVE REASON	28	100.0	28	100.0

20.UNDERSTAND..INTEGERS BY NUMBER RAY

AMIRAYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	51			
POSITIVE REASON	48	100.0	48	100.0

20.LIKED..INTEGERS BY NUMBER RAY

AMIRAYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90			
POSITIVE REASON	9	100.0	9	100.0

20.RELATED..INTEGERS BY NUMBER RAY

AMIRAYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	69			
POSITIVE REASON	30	100.0	30	100.0

20.FUTURE..INTEGERS BY NUMBER RAY

AMIRAYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	62			
POSITIVE REASON	37	100.0	37	100.0

20.HARD..INTEGERS BY NUMBER RAY

AMIRAYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	79			
POSITIVE REASON	20	100.0	20	100.0

21.TEXT EMPHASIS..INTEGERS BY NUMBER RAY

AMIRAYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	68			
POSITIVE REASON	30	96.8	30	96.8
NEGATIVE REASON	1	3.2	31	100.0

22.EMPHASIZED..INTEGERS AS SOLUTIONS

AMISOLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	63	67.7	63	67.7
USED	28	30.1	91	97.8
NOT USED	2	2.2	93	100.0

23.IN TEXT..INTEGERS AS SOLUTIONS

AMISOLT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8			
IN TEXT	84	92.3	84	92.3
NOT IN TEXT	7	7.7	91	100.0

24.KNOWN..INTEGERS AS SOLUTIONS

AMISOLK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	86			
POSITIVE REASON	12	92.3	12	92.3
NEGATIVE REASON	1	7.7	13	100.0

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24.SYLLABUS..INTEGERS AS SOLUTIONS

AMISOLS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	79			
POSITIVE REASON	20	100.0	20	100.0

24.UNDERSTAND..INTEGERS AS SOLUTIONS

AMISOLU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	56			
POSITIVE REASON	42	97.7	42	97.7
NEGATIVE REASON	1	2.3	43	100.0

24.LIKED..INTEGERS AS SOLUTIONS

AMISOLL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	86			
POSITIVE REASON	13	100.0	13	100.0

24.RELATED..INTEGERS AS SOLUTIONS

AMISOLR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	73			
POSITIVE REASON	24	92.3	24	92.3
NEGATIVE REASON	2	7.7	26	100.0

24.FUTURE..INTEGERS AS SOLUTIONS

AMISOLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	70			
POSITIVE REASON	29	100.0	29	100.0

24.HARD..INTEGERS AS SOLUTIONS

AMISOLH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	78			
POSITIVE REASON	20	95.2	20	95.2
NEGATIVE REASON	1	4.8	21	100.0

25.TEXT EMPHASIS..INTEGERS AS SOLUTIONS

AMISOLX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	70			
POSITIVE REASON	29	100.0	29	100.0

26.EMPHASIZED..INTEGERS BY VECTORS

AMIVECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	19	20.4	19	20.4
USED	28	30.1	47	50.5
NOT USED	46	49.5	93	100.0

27.IN TEXT..INTEGERS BY VECTORS

AMIVECT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8			
IN TEXT	32	35.2	32	35.2
NOT IN TEXT	59	64.8	91	100.0

28.KNOWN..INTEGERS BY VECTORS

AMIVECK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	84			
POSITIVE REASON	4	26.7	4	26.7
NEGATIVE REASON	11	73.3	15	100.0

28.SYLLABUS..INTEGERS BY VECTORS

AMIVECS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	74			
POSITIVE REASON	7	28.0	7	28.0
NEGATIVE REASON	18	72.0	25	100.0

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28.UNDERSTAND..INTEGERS BY VECTORS

AMIVECU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	8	53.3	8	53.3
NEGATIVE REASON	7	46.7	15	100.0

28.LIKED..INTEGERS BY VECTORS

AMIVECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	94	.	.	.
POSITIVE REASON	4	80.0	4	80.0
NEGATIVE REASON	1	20.0	5	100.0

28.RELATED..INTEGERS BY VECTORS

AMIVECR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	9	52.9	9	52.9
NEGATIVE REASON	8	47.1	17	100.0

28.FUTURE..INTEGERS BY VECTORS

AMIVECF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	10	100.0	10	100.0

28.HARD..INTEGERS BY VECTORS

AMIVECH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	6	85.7	6	85.7
NEGATIVE REASON	1	14.3	7	100.0

29.TEXT EMPHASIS..INTEGERS BY VECTORS

AMIVECX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	57	.	.	.
POSITIVE REASON	10	23.8	10	23.8
NEGATIVE REASON	32	76.2	42	100.0

30.EMPHASIZED..INTEGERS AS EQU CLASSES

AMICLSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
EMPHASIZED	3	3.3	3	3.3
USED	8	8.8	11	12.1
NOT USED	80	87.9	91	100.0

31.IN TEXT..INTEGERS AS EQU CLASSES

AMICLST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	5	5.6	5	5.6
NOT IN TEXT	85	94.4	90	100.0

32.KNOWN..INTEGERS AS EQU CLASSES

AMICLSK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
NEGATIVE REASON	15	100.0	15	100.0

32.SYLLABUS..INTEGERS AS EQU CLASSES

AMICLSS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
NEGATIVE REASON	32	100.0	32	100.0

32.UNDERSTAND..INTEGERS AS EQU CLASSES

AMICLSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	1	4.3	1	4.3
NEGATIVE REASON	22	95.7	23	100.0

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32.LIKED..INTEGERS AS EQU CLASSES

AMICLSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	95	.	.	.
NEGATIVE REASON	4	100.0	4	100.0

32.RELATED..INTEGERS AS EQU CLASSES

AMICLSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
NEGATIVE REASON	10	100.0	10	100.0

32.FUTURE..INTEGERS AS EQU CLASSES

AMICLSF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	98	.	.	.
POSITIVE REASON	1	100.0	1	100.0

32.HARD..INTEGERS AS EQU CLASSES

AMICLSH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
NEGATIVE REASON	13	100.0	13	100.0

33.TEXT EMPHASIS..INTEGERS..EQU CLASSES

AMICLSX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	51	.	.	.
POSITIVE REASON	1	2.1	1	2.1
NEGATIVE REASON	47	97.9	48	100.0

34.EMPHASIZED..INTEGERS BY PHY SITS

AMIPHYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
EMPHASIZED	21	22.8	21	22.8
USED	43	46.7	64	69.6
NOT USED	28	30.4	92	100.0

35.IN TEXT..INTEGERS BY PHY SITS

AMIPHYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
IN TEXT	34	37.4	34	37.4
NOT IN TEXT	57	62.6	91	100.0

36.KNOWN..INTEGERS BY PHY SITS

AMIPHYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	4	40.0	4	40.0
NEGATIVE REASON	6	60.0	10	100.0

36.SYLLABUS..INTEGERS BY PHY SITS

AMIPHYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	6	35.3	6	35.3
NEGATIVE REASON	11	64.7	17	100.0

36.UNDERSTAND..INTEGERS BY PHY SITS

AMIPHYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	15	83.3	15	83.3
NEGATIVE REASON	3	16.7	18	100.0

36.LIKED..INTEGERS BY PHY SITS

AMIPHYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	6	85.7	6	85.7
NEGATIVE REASON	1	14.3	7	100.0

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36.RELATED..INTEGERS BY PHY SITS

AMIPHYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	9	75.0	9	75.0
NEGATIVE REASON	3	25.0	12	100.0

36.FUTURE..INTEGERS BY PHY SITS

AMIPHYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	11	100.0	11	100.0

36.HARD..INTEGERS BY PHY SITS

AMIPHYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	92	.	.	.
POSITIVE REASON	5	71.4	5	71.4
NEGATIVE REASON	2	28.6	7	100.0

37.TEXT EMPHASIS..INTEGERS BY PHY SITS

AMIPHYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	5	22.7	5	22.7
NEGATIVE REASON	17	77.3	22	100.0

38.EMPHASIZED..INTEGER ADD BY NUM LINE

AMALINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	67	72.0	67	72.0
USED	24	25.8	91	97.8
NOT USED	2	2.2	93	100.0

39.IN TEXT..INTEGER ADD BY NUM LINE

AMALINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	87	94.6	87	94.6
NOT IN TEXT	5	5.4	92	100.0

40.KNOWN..INTEGER ADD BY NUM LINE

AMALINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	13	100.0	13	100.0

40.SYLLABUS..INTEGER ADD BY NUM LINE

AMALINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	30	96.8	30	96.8
NEGATIVE REASON	1	3.2	31	100.0

40.UNDERSTAND..INTEGER ADD BY NUM LINE

AMALINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	51	.	.	.
POSITIVE REASON	48	100.0	48	100.0

40.LIKED..INTEGER ADD BY NUM LINE

AMALINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	15	100.0	15	100.0

40.RELATED..INTEGER ADD BY NUM LINE

AMALINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	25	100.0	25	100.0

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40.FUTURE..INTEGER ADD BY NUM LINE

AMALINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	31	100.0	31	100.0

40.HARD..INTEGER ADD BY NUM LINE

AMALINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	27	100.0	27	100.0

41.TEXT EMPHASIS..INTEGER ADD..NUM LINE

AMALINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	30	96.8	30	96.8
NEGATIVE REASON	1	3.2	31	100.0

42.EMPHASIZED..INTEGER ADD BY RULES

AMARULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	72	77.4	72	77.4
USED	18	19.4	90	96.8
NOT USED	3	3.2	93	100.0

43.IN TEXT..INTEGER ADD BY RULES

AMARULT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	83	90.2	83	90.2
NOT IN TEXT	9	9.8	92	100.0

44.KNOWN..INTEGER ADD BY RULES

AMARULK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	15	93.8	15	93.8
NEGATIVE REASON	1	6.3	16	100.0

44.SYLLABUS..INTEGER ADD BY RULES

AMARULS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	74	.	.	.
POSITIVE REASON	24	96.0	24	96.0
NEGATIVE REASON	1	4.0	25	100.0

44.UNDERSTAND..INTEGER ADD BY RULES

AMARULU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
POSITIVE REASON	43	97.7	43	97.7
NEGATIVE REASON	1	2.3	44	100.0

44.LIKED..INTEGER ADD BY RULES

AMARULL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	10	100.0	10	100.0

44.RELATED..INTEGER ADD BY RULES

AMARULR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	24	100.0	24	100.0

44.FUTURE..INTEGER ADD BY RULES

AMARULF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	32	100.0	32	100.0

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44.HARD..INTEGER ADD BY RULES

AMARULH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	20	100.0	20	100.0

45.TEXT EMPHASIS..INTEGER ADD BY RULES

AMARULX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	62	.	.	.
POSITIVE REASON	35	94.6	35	94.6
NEGATIVE REASON	2	5.4	37	100.0

46.EMPHASIZED..INTEGER ADD BY PHY SITS

AMAPHYE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	19	20.4	19	20.4
USED	46	49.5	65	69.9
NOT USED	28	30.1	93	100.0

47.IN TEXT..INTEGER ADD BY PHY SITS

AMAPHYT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
IN TEXT	31	34.1	31	34.1
NOT IN TEXT	60	65.9	91	100.0

48.KNOWN..INTEGER ADD BY PHY SITS

AMAPHYK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	6	60.0	6	60.0
NEGATIVE REASON	4	40.0	10	100.0

48.SYLLABUS..INTEGER ADD BY PHY SITS

AMAPHYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	4	33.3	4	33.3
NEGATIVE REASON	8	66.7	12	100.0

48.UNDERSTAND..INTEGER ADD BY PHY SITS

AMAPHYU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	13	65.0	13	65.0
NEGATIVE REASON	7	35.0	20	100.0

48.LIKED..INTEGER ADD BY PHY SITS

AMAPHYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	8	100.0	8	100.0

48.RELATED..INTEGER ADD BY PHY SITS

AMAPHYR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	6	75.0	6	75.0
NEGATIVE REASON	2	25.0	8	100.0

48.FUTURE..INTEGER ADD BY PHY SITS

AMAPHYF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	10	100.0	10	100.0

48.HARD..INTEGER ADD BY PHY SITS

AMAPHYH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	9	100.0	9	100.0

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49.TEXT EMPHASIS..INTEGER ADD..PHY SITS

AMAPHYX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
POSITIVE REASON	7	29.2	7	29.2
NEGATIVE REASON	17	70.8	24	100.0

50.EMPHASIZED..INTEGER SUB BY NUM LINE

AMSLINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	57	61.3	57	61.3
USED	32	34.4	89	95.7
NOT USED	4	4.3	93	100.0

51.IN TEXT..INTEGER SUB BY NUM LINE

AMSLINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	81	88.0	81	88.0
NOT IN TEXT	11	12.0	92	100.0

52.KNOWN..INTEGER SUB BY NUM LINE

AMSLINK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	10	83.3	10	83.3
NEGATIVE REASON	2	16.7	12	100.0

52.SYLLABUS..INTEGER SUB BY NUM LINE

AMSLINS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	19	95.0	19	95.0
NEGATIVE REASON	1	5.0	20	100.0

52.UNDERSTAND..INTEGER SUB BY NUM LINE

AMSLINU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	56	.	.	.
POSITIVE REASON	39	90.7	39	90.7
NEGATIVE REASON	4	9.3	43	100.0

52.LIKED..INTEGER SUB BY NUM LINE

AMSLINL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	9	100.0	9	100.0

52.RELATED..INTEGER SUB BY NUM LINE

AMSLINR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	27	100.0	27	100.0

52.FUTURE..INTEGER SUB BY NUM LINE

AMSLINF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	23	100.0	23	100.0

52.HARD..INTEGER SUB BY NUM LINE

AMSLINH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	18	90.0	18	90.0
NEGATIVE REASON	2	10.0	20	100.0

53.TEXT EMPHASIS..INTEGER SUB..NUM LINE

AMSLINX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	29	93.5	29	93.5
NEGATIVE REASON	2	6.5	31	100.0

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54.EMPHASIZED..INTEGER SUB AS INV ADD

AMSINVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
EMPHASIZED	25	27.2	25	27.2
USED	27	29.3	52	56.5
NOT USED	40	43.5	92	100.0

55.IN TEXT..INTEGER SUB AS INV ADD

AMSINVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
IN TEXT	39	43.3	39	43.3
NOT IN TEXT	51	56.7	90	100.0

56.KNOWN..INTEGER SUB AS INV ADD

AMSINVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	83	.	.	.
POSITIVE REASON	7	43.8	7	43.8
NEGATIVE REASON	9	56.3	16	100.0

56.SYLLABUS..INTEGER SUB AS INV ADD

AMSINVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	12	54.5	12	54.5
NEGATIVE REASON	10	45.5	22	100.0

56.UNDERSTAND..INTEGER SUB AS INV ADD

AMSINVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	14	50.0	14	50.0
NEGATIVE REASON	14	50.0	28	100.0

56.LIKED..INTEGER SUB AS INV ADD

AMSINVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	5	55.6	5	55.6
NEGATIVE REASON	4	44.4	9	100.0

56.RELATED..INTEGER SUB AS INV ADD

AMSINVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	80	.	.	.
POSITIVE REASON	11	57.9	11	57.9
NEGATIVE REASON	8	42.1	19	100.0

56.FUTURE..INTEGER SUB AS INV ADD

AMSINVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	17	94.4	17	94.4
NEGATIVE REASON	1	5.6	18	100.0

56.HARD..INTEGER SUB AS INV ADD

AMSINVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	4	44.4	4	44.4
NEGATIVE REASON	5	55.6	9	100.0

57.TEXT EMPHASIS..INTEGER SUB AS INV ADD

AMSINVX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	60	.	.	.
POSITIVE REASON	14	35.9	14	35.9
NEGATIVE REASON	25	64.1	39	100.0

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58.EMPHASIZED..INTEGER SUB BY RULES

AMSRULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
EMPHASIZED	61	66.3	61	66.3
USED	21	22.8	82	89.1
NOT USED	10	10.9	92	100.0

59.IN TEXT..INTEGER SUB BY RULES

AMSRULT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	72	78.3	72	78.3
NOT IN TEXT	20	21.7	92	100.0

60.KNOWN..INTEGER SUB BY RULES

AMSRULK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	13	86.7	13	86.7
NEGATIVE REASON	2	13.3	15	100.0

60.SYLLABUS..INTEGER SUB BY RULES

AMSRULS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	18	78.3	18	78.3
NEGATIVE REASON	5	21.7	23	100.0

60.UNDERSTAND..INTEGER SUB BY RULES

AMSRULU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	58	.	.	.
POSITIVE REASON	36	87.8	36	87.8
NEGATIVE REASON	5	12.2	41	100.0

60.LIKED..INTEGER SUB BY RULES

AMSRULL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	10	83.3	10	83.3
NEGATIVE REASON	2	16.7	12	100.0

60.RELATED..INTEGER SUB BY RULES

AMSRULR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	26	96.3	26	96.3
NEGATIVE REASON	1	3.7	27	100.0

60.FUTURE..INTEGER SUB BY RULES

AMSRULF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
POSITIVE REASON	31	100.0	31	100.0

60.HARD..INTEGER SUB BY RULES

AMSRULH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	76	.	.	.
POSITIVE REASON	22	95.7	22	95.7
NEGATIVE REASON	1	4.3	23	100.0

61.TEXT EMPHASIS..INTEGER SUB BY RULES

AMSRULX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	60	.	.	.
POSITIVE REASON	34	87.2	34	87.2
NEGATIVE REASON	5	12.8	39	100.0

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62.EMPHASIZED..INTEGER SUB BY UNITS

AMSUNSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	24	25.8	24	25.8
USED	41	44.1	65	69.9
NOT USED	28	30.1	93	100.0

63.IN TEXT..INTEGER SUB BY UNITS

AMSUNST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	48	52.2	48	52.2
NOT IN TEXT	44	47.8	92	100.0

64.KNOWN..INTEGER SUB BY UNITS

AMSUNSK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	5	41.7	5	41.7
NEGATIVE REASON	7	58.3	12	100.0

64.SYLLABUS..INTEGER SUB BY UNITS

AMSUNSS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	85	.	.	.
POSITIVE REASON	7	50.0	7	50.0
NEGATIVE REASON	7	50.0	14	100.0

64.UNDERSTAND..INTEGER SUB BY UNITS

AMSUNSU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	14	53.8	14	53.8
NEGATIVE REASON	12	46.2	26	100.0

64.LIKED..INTEGER SUB BY UNITS

AMSUNSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	5	62.5	5	62.5
NEGATIVE REASON	3	37.5	8	100.0

64.RELATED..INTEGER SUB BY UNITS

AMSUNSR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	6	54.5	6	54.5
NEGATIVE REASON	5	45.5	11	100.0

64.FUTURE..INTEGER SUB BY UNITS

AMSUNSF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	11	91.7	11	91.7
NEGATIVE REASON	1	8.3	12	100.0

64.HARD..INTEGER SUB BY UNITS

AMSUNSH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	7	41.2	7	41.2
NEGATIVE REASON	10	58.8	17	100.0

65.TEXT EMPHASIS..INTEGER SUB BY UNITS

AMSUNSX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	73	.	.	.
POSITIVE REASON	13	50.0	13	50.0
NEGATIVE REASON	13	50.0	26	100.0

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66.EMPHASIZED..INTEGER SUB BY WHAT ADD

AMSADDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	19	20.4	19	20.4
USED	36	38.7	55	59.1
NOT USED	38	40.9	93	100.0

67.IN TEXT..INTEGER SUB BY WHAT ADD

AMSADDT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
IN TEXT	38	41.8	38	41.8
NOT IN TEXT	53	58.2	91	100.0

68.KNOWN..INTEGER SUB BY WHAT ADD

AMSADDK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	87	.	.	.
POSITIVE REASON	4	33.3	4	33.3
NEGATIVE REASON	8	66.7	12	100.0

68.SYLLABUS..INTEGER SUB BY WHAT ADD

AMSADDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	7	38.9	7	38.9
NEGATIVE REASON	11	61.1	18	100.0

68.UNDERSTAND..INTEGER SUB BY WHAT ADD

AMSADDU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	71	.	.	.
POSITIVE REASON	9	32.1	9	32.1
NEGATIVE REASON	19	67.9	28	100.0

68.LIKED..INTEGER SUB BY WHAT ADD

AMSADDL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	91	.	.	.
POSITIVE REASON	8	100.0	8	100.0

68.RELATED..INTEGER SUB BY WHAT ADD

AMSADDR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	6	60.0	6	60.0
NEGATIVE REASON	4	40.0	10	100.0

68.FUTURE..INTEGER SUB BY WHAT ADD

AMSADDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	8	88.9	8	88.9
NEGATIVE REASON	1	11.1	9	100.0

68.HARD..INTEGER SUB BY WHAT ADD

AMSADDH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	4	26.7	4	26.7
NEGATIVE REASON	11	73.3	15	100.0

69.TEXT EMPHASIS..INTEGER SUB..WHAT ADD

AMSADDX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	10	37.0	10	37.0
NEGATIVE REASON	17	63.0	27	100.0

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70.PRODUCT CONCEPT..REPEATED ADDITION

AMPADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	47	50.5	47	50.5
USED	38	40.9	85	91.4
NOT USED	8	8.6	93	100.0

71.PRODUCT CONCEPT..EXTEND PROPERTIES

AMPEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	29	31.2	29	31.2
USED	32	34.4	61	65.6
NOT USED	32	34.4	93	100.0

72.PRODUCT CONCEPT..PHYSICAL SITUATIONS

AMPPHY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
EMPHASIZED	13	14.1	13	14.1
USED	42	45.7	55	59.8
NOT USED	37	40.2	92	100.0

73.PRODUCT CONCEPT..PATTERNS

AMPPAT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
EMPHASIZED	59	64.1	59	64.1
USED	24	26.1	83	90.2
NOT USED	9	9.8	92	100.0

74.PRODUCT CONCEPT..JUST RULES

AMPRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8			
EMPHASIZED	43	47.3	43	47.3
USED	28	30.8	71	78.0
NOT USED	20	22.0	91	100.0

75.EMPHASIZED..LEQ SOLVE BY EQU PROPS

AMEEQUE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	85	91.4	85	91.4
USED	6	6.5	91	97.8
NOT USED	2	2.2	93	100.0

76.IN TEXT..LEQ SOLVE BY EQU PROPS

AMEEQUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
IN TEXT	91	98.9	91	98.9
NOT IN TEXT	1	1.1	92	100.0

77.KNOWN..LEQ SOLVE BY EQU PROPS

AMEEQUK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	79			
POSITIVE REASON	20	100.0	20	100.0

77.SYLLABUS..LEQ SOLVE BY EQU PROPS

AMEEQUS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	68			
POSITIVE REASON	31	100.0	31	100.0

77.UNDERSTAND..LEQ SOLVE BY EQU PROPS

AMEEQUU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	37			
POSITIVE REASON	61	98.4	61	98.4
NEGATIVE REASON	1	1.6	62	100.0

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77.LIKED..LEQ SOLVE BY EQU PROPS

AMEEQUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	79			
POSITIVE REASON	19	95.0	19	95.0
NEGATIVE REASON	1	5.0	20	100.0

77.RELATED..LEQ SOLVE BY EQU PROPS

AMEEQUR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	54			
POSITIVE REASON	44	97.8	44	97.8
NEGATIVE REASON	1	2.2	45	100.0

77.FUTURE..LEQ SOLVE BY EQU PROPS

AMEEQUF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	58			
POSITIVE REASON	40	97.6	40	97.6
NEGATIVE REASON	1	2.4	41	100.0

77.HARD..LEQ SOLVE BY EQU PROPS

AMEEQUH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	66			
POSITIVE REASON	32	97.0	32	97.0
NEGATIVE REASON	1	3.0	33	100.0

78.TEXT EMPHASIS..LEQ SOLVE BY EQU PROPS

AMEEQUX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	55			
POSITIVE REASON	44	100.0	44	100.0

79.EMPHASIZED..LEQ SOLVE BY INV OPS

AMEINVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	41	44.1	41	44.1
USED	34	36.6	75	80.6
NOT USED	18	19.4	93	100.0

80.IN TEXT..LEQ SOLVE BY INV OPS

AMEINVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
IN TEXT	66	71.7	66	71.7
NOT IN TEXT	26	28.3	92	100.0

81.KNOWN..LEQ SOLVE BY INV OPS

AMEINVK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	85			
POSITIVE REASON	10	71.4	10	71.4
NEGATIVE REASON	4	28.6	14	100.0

81.SYLLABUS..LEQ SOLVE BY INV OPS

AMEINVS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	82			
POSITIVE REASON	14	82.4	14	82.4
NEGATIVE REASON	3	17.6	17	100.0

81.UNDERSTAND..LEQ SOLVE BY INV OPS

AMEINVU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	64			
POSITIVE REASON	24	68.6	24	68.6
NEGATIVE REASON	11	31.4	35	100.0

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81.LIKED..LEQ SOLVE BY INV OPS

AMEINVL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	8	88.9	8	88.9
NEGATIVE REASON	1	11.1	9	100.0

81.RELATED..LEQ SOLVE BY INV OPS

AMEINVR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	79	.	.	.
POSITIVE REASON	19	95.0	19	95.0
NEGATIVE REASON	1	5.0	20	100.0

81.FUTURE..LEQ SOLVE BY INV OPS

AMEINVF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	22	100.0	22	100.0

81.HARD..LEQ SOLVE BY INV OPS

AMEINVH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
POSITIVE REASON	13	76.5	13	76.5
NEGATIVE REASON	4	23.5	17	100.0

82.TEXT EMPHASIS..LEQ SOLVE BY INV OPS

AMEINVX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	67	.	.	.
POSITIVE REASON	25	78.1	25	78.1
NEGATIVE REASON	7	21.9	32	100.0

83.EMPHASIZED..LEQ SOLVE BY ARITH REASON

AMEARTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	20	21.5	20	21.5
USED	36	38.7	56	60.2
NOT USED	37	39.8	93	100.0

84.IN TEXT..LEQ SOLVE BY ARITH REASON

AMEARTT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
IN TEXT	38	41.8	38	41.8
NOT IN TEXT	53	58.2	91	100.0

85.KNOWN..LEQ SOLVE BY ARITH REASON

AMEARTK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	8	44.4	8	44.4
NEGATIVE REASON	10	55.6	18	100.0

85.SYLLABUS..LEQ SOLVE BY ARITH REASON

AMEARTS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	84	.	.	.
POSITIVE REASON	12	80.0	12	80.0
NEGATIVE REASON	3	20.0	15	100.0

85.UNDERSTAND..LEQ SOLVE BY ARITH REASON

AMEARTU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
POSITIVE REASON	11	37.9	11	37.9
NEGATIVE REASON	18	62.1	29	100.0

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85.LIKED..LEQ SOLVE BY ARITH REASON

AMEARTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
POSITIVE REASON	8	80.0	8	80.0
NEGATIVE REASON	2	20.0	10	100.0

85.RELATED..LEQ SOLVE BY ARITH REASON

AMEARTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	8	72.7	8	72.7
NEGATIVE REASON	3	27.3	11	100.0

85.FUTURE..LEQ SOLVE BY ARITH REASON

AMEARTF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
POSITIVE REASON	10	90.9	10	90.9
NEGATIVE REASON	1	9.1	11	100.0

85.HARD..LEQ SOLVE BY ARITH REASON

AMEARTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	86	.	.	.
POSITIVE REASON	8	61.5	8	61.5
NEGATIVE REASON	5	38.5	13	100.0

86.TEXT EMPHASIS..LEQ SOLVE..ARITH REASN

AMEARTX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
POSITIVE REASON	10	37.0	10	37.0
NEGATIVE REASON	17	63.0	27	100.0

87.EMPHASIZED..LEQ SOLVE BY TRIAL ERROR

AMETAEE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	6	6.5	6	6.5
USED	47	50.5	53	57.0
NOT USED	40	43.0	93	100.0

88.IN TEXT..LEQ SOLVE BY TRIAL ERROR

AMETAET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
IN TEXT	29	31.5	29	31.5
NOT IN TEXT	63	68.5	92	100.0

89.KNOWN..LEQ SOLVE BY TRIAL ERROR

AMETAEK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
POSITIVE REASON	2	9.1	2	9.1
NEGATIVE REASON	20	90.9	22	100.0

89.SYLLABUS..LEQ SOLVE BY TRIAL ERROR

AMETAES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	90	.	.	.
POSITIVE REASON	3	33.3	3	33.3
NEGATIVE REASON	6	66.7	9	100.0

89.UNDERSTAND..LEQ SOLVE BY TRIAL ERROR

AMETAEU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	81	.	.	.
POSITIVE REASON	3	16.7	3	16.7
NEGATIVE REASON	15	83.3	18	100.0

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89.LIKED..LEQ SOLVE BY TRIAL ERROR

AMETAEL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92			
POSITIVE REASON	3	42.9	3	42.9
NEGATIVE REASON	4	57.1	7	100.0

89.RELATED..LEQ SOLVE BY TRIAL ERROR

AMETAER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	90			
POSITIVE REASON	5	55.6	5	55.6
NEGATIVE REASON	4	44.4	9	100.0

89.FUTURE..LEQ SOLVE BY TRIAL ERROR

AMETAEF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	92			
POSITIVE REASON	4	57.1	4	57.1
NEGATIVE REASON	3	42.9	7	100.0

89.HARD..LEQ SOLVE BY TRIAL ERROR

AMETAEH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	87			
POSITIVE REASON	3	30.0	3	30.0
NEGATIVE REASON	7	70.0	10	100.0

90.TEXT EMPHASIS..LEQ SOLVE..TRIAL ERROR

AMETAEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	77			
POSITIVE REASON	3	13.6	3	13.6
NEGATIVE REASON	19	86.4	22	100.0

91.EMPHASIZED..LEQ SOLVE BY RULES

AMERULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	44	47.3	44	47.3
USED	34	36.6	78	83.9
NOT USED	15	16.1	93	100.0

92.IN TEXT..LEQ SOLVE BY RULES

AMERULT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	8			
IN TEXT	51	56.0	51	56.0
NOT IN TEXT	40	44.0	91	100.0

93.KNOWN..LEQ SOLVE BY RULES

AMERULK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	85			
POSITIVE REASON	10	71.4	10	71.4
NEGATIVE REASON	4	28.6	14	100.0

93.SYLLABUS..LEQ SOLVE BY RULES

AMERULS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	89			
POSITIVE REASON	10	100.0	10	100.0

93.UNDERSTAND..LEQ SOLVE BY RULES

AMERULU	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	67			
POSITIVE REASON	30	93.8	30	93.8
NEGATIVE REASON	2	6.3	32	100.0

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93.LIKED..LEQ SOLVE BY RULES

AMERULL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	88			
POSITIVE REASON	11	100.0	11	100.0

93.RELATED..LEQ SOLVE BY RULES

AMERULR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	74			
POSITIVE REASON	19	76.0	19	76.0
NEGATIVE REASON	6	24.0	25	100.0

93.FUTURE..LEQ SOLVE BY RULES

AMERULF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	75			
POSITIVE REASON	24	100.0	24	100.0

93.HARD..LEQ SOLVE BY RULES

AMERULH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	82			
POSITIVE REASON	17	100.0	17	100.0

94.TEXT EMPHASIS..LEQ SOLVE BY RULES

AMERULX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	74			
POSITIVE REASON	15	60.0	15	60.0
NEGATIVE REASON	10	40.0	25	100.0

95.FORMULAS..EXPLAIN MEANING OF TERMS

AMFTERM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
EMPHASIZED	49	53.3	49	53.3
USED	34	37.0	83	90.2
NOT USED	9	9.8	92	100.0

96.FORMULAS..INSPECT GRAPHS FIND FORMULA

AMFGRPH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	16	17.2	16	17.2
USED	39	41.9	55	59.1
NOT USED	38	40.9	93	100.0

97.FORMULAS..GIVE DATA DEVELOP FORMULA

AMFDDEV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	6			
EMPHASIZED	12	12.9	12	12.9
USED	29	31.2	41	44.1
NOT USED	52	55.9	93	100.0

98.FORMULAS..STUDENTS COLLECT DATA

AMFDCOL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
EMPHASIZED	7	7.6	7	7.6
USED	15	16.3	22	23.9
NOT USED	70	76.1	92	100.0

99.FORMULAS..STUDENTS CREATE NEW FORMULA

AMFNEWF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	7			
EMPHASIZED	13	14.1	13	14.1
USED	20	21.7	33	35.9
NOT USED	59	64.1	92	100.0

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100.PROBLEM TYPE..AGE

AAAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	49	52.7	49	52.7
USED	40	43.0	89	95.7
NOT USED	4	4.3	93	100.0

AADIGIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	54	58.1	54	58.1
USED	38	40.9	92	98.9
NOT USED	1	1.1	93	100.0

102.PROBLEM TYPE..MIXTURE

AAMIX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	26	28.0	26	28.0
USED	49	52.7	75	80.6
NOT USED	18	19.4	93	100.0

103.PROBLEM TYPE..PERCENT

AAPCT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	36	38.7	36	38.7
USED	47	50.5	83	89.2
NOT USED	10	10.8	93	100.0

104.PROBLEM TYPE..DISTANCE RATE TIME

AADRT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	52	55.9	52	55.9
USED	37	39.8	89	95.7
NOT USED	4	4.3	93	100.0

105.PROBLEM TYPE..INTEREST

AAINST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	47	50.5	47	50.5
USED	42	45.2	89	95.7
NOT USED	4	4.3	93	100.0

106.PROBLEM TYPE..AREA VOLUME

AAAREAV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
EMPHASIZED	44	47.3	44	47.3
USED	38	40.9	82	88.2
NOT USED	11	11.8	93	100.0

107.PROBLEM TYPE..PHYSICAL NATURAL SCI

AAPHY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
EMPHASIZED	4	4.3	4	4.3
USED	21	22.8	25	27.2
NOT USED	67	72.8	92	100.0

108.PROBLEM TYPE..ENERGY OR ECOLOGY

AAENRGY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
EMPHASIZED	10	10.9	10	10.9
USED	33	35.9	43	46.7
NOT USED	49	53.3	92	100.0

109.PROBLEM SOURCE..STUDENT TEXTBOOK

AUTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
FREQUENTLY	83	89.2	83	89.2
OCCASIONALLY	8	8.6	91	97.8
RARELY OR NEVER	2	2.2	93	100.0

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110.PROBLEM SOURCE..SUPPLEMENTARY BOOKS

AUSTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
FREQUENTLY	11	11.8	11	11.8
OCCASIONALLY	72	77.4	83	89.2
RARELY OR NEVER	10	10.8	93	100.0

111.PROBLEM SOURCE..LOCAL MATERIALS

AULOCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
FREQUENTLY	10	10.8	10	10.8
OCCASIONALLY	44	47.3	54	58.1
RARELY OR NEVER	39	41.9	93	100.0

112.PROBLEM SOURCE..GUIDE OR SYLLABUS

AUGUIDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
FREQUENTLY	37	39.8	37	39.8
OCCASIONALLY	47	50.5	84	90.3
RARELY OR NEVER	9	9.7	93	100.0

113.PROBLEM SOURCE..PROF ASSN PUBLICATNS

AUPPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
OCCASIONALLY	25	26.9	25	26.9
RARELY OR NEVER	68	73.1	93	100.0

114.PROBLEM SOURCE..STUDENT SUGGESTIONS

AUSTDS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
FREQUENTLY	4	4.3	4	4.3
OCCASIONALLY	31	33.7	35	38.0
RARELY OR NEVER	57	62.0	92	100.0

115.PROBLEM SOURCE..REAL WORLD

AUREALW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
FREQUENTLY	4	4.3	4	4.3
OCCASIONALLY	36	39.1	40	43.5
RARELY OR NEVER	52	56.5	92	100.0

116.AVERAGE LENGTH OF MATH CLASS MINUTES

APSIZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
1 THRU 30	9	9.9	9	9.9
31 THRU 50	82	90.1	91	100.0

117.PERIODS..TOTAL INTEGER & INTEGER OPS

APITOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
1 THRU 10	24	26.7	24	26.7
11 THRU 20	45	50.0	69	76.7
21 THRU 30	13	14.4	82	91.1
31 THRU 998	8	8.9	90	100.0

118.PERIODS..POS AND NEG INTEGERS

APIPN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	4	4.4	4	4.4
1 THRU 5	84	93.3	88	97.8
6 THRU 10	2	2.2	90	100.0

119.PERIODS..ADDITION OF INTEGERS

APIADD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	84	94.4	85	95.5
6 THRU 10	4	4.5	89	100.0

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120.PERIODS..SUBTRACTION OF INTEGERS

APISUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	83	93.3	84	94.4
6 THRU 10	5	5.6	89	100.0

121.PERIODS..MULTIPLICATION OF INTEGERS

APIMUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	89	98.9	90	100.0

122.PERIODS..DIVISION OF INTEGERS

APIDIV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	88	97.8	89	98.9
6 THRU 10	1	1.1	90	100.0

123.PERIODS..PROPS OF INTEGER SET

APISTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	3	3.4	3	3.4
1 THRU 5	86	96.6	89	100.0

124.PERIODS..ORDER RELATIONS OF INTEGERS

APIORD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	14	15.7	14	15.7
1 THRU 5	75	84.3	89	100.0

125.PERIODS..INTEGER APPLICATIONS

APIAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	2	2.2	2	2.2
1 THRU 5	80	88.9	82	91.1
6 THRU 10	8	8.9	90	100.0

126.PERIODS..TOTAL FORMULAS AND EQUATNS

APETOT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
1 THRU 10	32	34.8	32	34.8
11 THRU 20	54	58.7	86	93.5
21 THRU 30	3	3.3	89	96.7
31 THRU 998	3	3.3	92	100.0

127.PERIODS..EVLUATION OF FORMULAS

APEEVAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	3	3.3	3	3.3
1 THRU 5	88	95.7	91	98.9
6 THRU 10	1	1.1	92	100.0

128.PERIODS..DERIVING FORMULAS EQUATNS

APEDERV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
NONE	13	14.3	13	14.3
1 THRU 5	77	84.6	90	98.9
6 THRU 10	1	1.1	91	100.0

129.PERIODS..APPLICATIONS OF FORMULAS

APEAPPF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	2	2.2	2	2.2
1 THRU 5	87	94.6	89	96.7
6 THRU 10	3	3.3	92	100.0

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130.PERIODS..SOLVING LITERAL EQUATIONS

APESLIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	8	8.7	8	8.7
1 THRU 5	80	87.0	88	95.7
6 THRU 10	4	4.3	92	100.0

131.PERIODS..SOLVING LINEAR EQUATIONS

APESLIN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NONE	1	1.1	1	1.1
1 THRU 5	88	95.7	89	96.7
6 THRU 10	3	3.3	92	100.0

132.PERIODS..APPLICATIONS OF EQUATIONS

APEAPPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
1 THRU 5	88	95.7	88	95.7
6 THRU 10	4	4.3	92	100.0

133.OPINION..NUMBER LINE ADDS TO INTEGER

AOILINE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	53	57.6	53	57.6
AGREE	37	40.2	90	97.8
UNDECIDED	2	2.2	92	100.0

134.OPINION..JUSTIFY RULE MULTIPLY INTS

AOIRULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	30	32.6	30	32.6
AGREE	58	63.0	88	95.7
UNDECIDED	4	4.3	92	100.0

135.OPINION..PRACTICE OPS DIRECTED NUMS

AODNUMS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	27	29.3	27	29.3
AGREE	58	63.0	85	92.4
UNDECIDED	3	3.3	88	95.7
DISAGREE	4	4.3	92	100.0

136.OPINION..IMPORT UNDERSTAND INT LAWS

AOILAWS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	24	26.1	24	26.1
AGREE	58	63.0	82	89.1
UNDECIDED	7	7.6	89	96.7
DISAGREE	3	3.3	92	100.0

137.OPINION..KNOW WHY INT OP RULES WORK

AOIWHY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	16	17.4	16	17.4
AGREE	44	47.8	60	65.2
UNDECIDED	17	18.5	77	83.7
DISAGREE	14	15.2	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

138.OPINION..WHY IMPORT INT STRUC PROPS

AOISTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	15	16.3	15	16.3
AGREE	55	59.8	70	76.1
UNDECIDED	11	12.0	81	88.0
DISAGREE	10	10.9	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
ALGEBRA TOPIC - SPECIFIC QUESTIONNAIRE

139.OPINION..SLOW USE LETTER UNKNOWNS

AOLETTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	17	18.5	17	18.5
AGREE	48	52.2	65	70.7
UNDECIDED	10	10.9	75	81.5
DISAGREE	16	17.4	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

140.OPINION..LEQ WITH FRACTN SOL HARDER

AOSOLUT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	19	20.7	19	20.7
AGREE	43	46.7	62	67.4
UNDECIDED	5	5.4	67	72.8
DISAGREE	24	26.1	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

141.OPINION..JUSTIFY EQUATION SOL STEP

AOESTEP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	34	37.0	34	37.0
AGREE	54	58.7	88	95.7
UNDECIDED	3	3.3	91	98.9
DISAGREE	1	1.1	92	100.0

142.OPINION..SOLVE EQUATIONS TRIAL ERROR

AOETAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	12	13.0	12	13.0
AGREE	45	48.9	57	62.0
UNDECIDED	15	16.3	72	78.3
DISAGREE	17	18.5	89	96.7
STRONGLY DISAGRE	3	3.3	92	100.0

143.OPINION..SOLUTION SET NOTION HELPS

AOSSET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	11	12.0	11	12.0
AGREE	61	66.3	72	78.3
UNDECIDED	16	17.4	88	95.7
DISAGREE	4	4.3	92	100.0

144.OPINION..WORD PROBS LINEAR EQS HARD

AOEWP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	6	6.5	6	6.5
AGREE	57	62.0	63	68.5
UNDECIDED	7	7.6	70	76.1
DISAGREE	22	23.9	92	100.0

145.OPINION..HARD TRANSLATE WORDS MATH

AOTRANS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	17	18.5	17	18.5
AGREE	49	53.3	66	71.7
UNDECIDED	3	3.3	69	75.0
DISAGREE	23	25.0	92	100.0

146.OPINION..APPS WITH LINEAR EQS HARD

AOEAPPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	7	7.6	7	7.6
AGREE	63	68.5	70	76.1
UNDECIDED	8	8.7	78	84.8
DISAGREE	14	15.2	92	100.0

CLASSROOM PROCESS QUESTIONNAIRE-THAILAND-POPULATION A
ALGEBRA TOPIC - SPECIFIC QUESTIONNAIRE

147.OPINION..FIRST IDENTIFY TYPE PROBLEM

AOPTYPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	17	18.5	17	18.5
AGREE	54	58.7	71	77.2
UNDECIDED	11	12.0	82	89.1
DISAGREE	10	10.9	92	100.0

148.OPINION..BAD TO JUSTIFY STEPS EQ SOL

AOEJUST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	1	1.1	1	1.1
AGREE	5	5.4	6	6.5
UNDECIDED	18	19.6	24	26.1
DISAGREE	61	66.3	85	92.4
STRONGLY DISAGRE	7	7.6	92	100.0

149.OPINION..EQUIV EQUATN NOTION USEFUL

AOEQIVE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	15	16.3	15	16.3
AGREE	60	65.2	75	81.5
UNDECIDED	15	16.3	90	97.8
DISAGREE	2	2.2	92	100.0

150.OPINION..FORMULA SHOULD BE MEMORIZED

AOFMEM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	5	5.4	5	5.4
AGREE	34	37.0	39	42.4
UNDECIDED	13	14.1	52	56.5
DISAGREE	34	37.0	86	93.5
STRONGLY DISAGRE	6	6.5	92	100.0

151.OPINION..FORMULAS FOR STORY PROBLEMS

AOFORSP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	5	5.4	5	5.4
AGREE	38	41.3	43	46.7
UNDECIDED	19	20.7	62	67.4
DISAGREE	29	31.5	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

152.OPINION..FORMULAS FOR VOLUMES ETC

AOFORGF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	18	19.6	18	19.6
AGREE	62	67.4	80	87.0
UNDECIDED	7	7.6	87	94.6
DISAGREE	4	4.3	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

153.OPINION..FORMULAS IN PRACTICAL APPS

AOFORPR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
STRONGLY AGREE	13	14.1	13	14.1
AGREE	45	48.9	58	63.0
UNDECIDED	22	23.9	80	87.0
DISAGREE	11	12.0	91	98.9
STRONGLY DISAGRE	1	1.1	92	100.0

Classroom Process Questionnaire

GENERAL

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

1A.OBJECTIVE..LOGICAL STRUCTURE OF MATH

COBJLOG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	15	15.5	15	15.5
EQUAL EMPHASIS	52	53.6	67	69.1
LESS EMPHASIS	30	30.9	97	100.0

1B.OBJECTIVE..THE NATURE OF PROOF

COBJPRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	21	21.6	21	21.6
EQUAL EMPHASIS	47	48.5	68	70.1
LESS EMPHASIS	29	29.9	97	100.0

1C.OBJECTIVE..INTEREST IN MATHEMATICS

COBJINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	61	62.9	61	62.9
EQUAL EMPHASIS	32	33.0	93	95.9
LESS EMPHASIS	4	4.1	97	100.0

1D.OBJECTIVE..KNOW MATH FACTS, ETC.

COBJKNW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	69	71.1	69	71.1
EQUAL EMPHASIS	23	23.7	92	94.8
LESS EMPHASIS	5	5.2	97	100.0

1E.OBJECTIVE..ATTITUDE OF INQUIRY

COBJINQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	23	23.7	23	23.7
EQUAL EMPHASIS	64	66.0	87	89.7
LESS EMPHASIS	10	10.3	97	100.0

1F.OBJECTIVE..AWARENESS OF MATH IN LIFE

COBJLIF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	53	54.6	53	54.6
EQUAL EMPHASIS	39	40.2	92	94.8
LESS EMPHASIS	5	5.2	97	100.0

1G.OBJECTIVE..COMPUTATION SPEED ACCURACY

COBJCOM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	50	51.5	50	51.5
EQUAL EMPHASIS	39	40.2	89	91.8
LESS EMPHASIS	8	8.2	97	100.0

1H.OBJECTIVE..AWARE OF MATH IN SCIENCE

COBJSCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	31	32.0	31	32.0
EQUAL EMPHASIS	52	53.6	83	85.6
LESS EMPHASIS	14	14.4	97	100.0

1I.OBJECTIVE..SYSTEMATIC APPRCH PROBLEMS

COBJSYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
MORE EMPHASIS	43	44.3	43	44.3
EQUAL EMPHASIS	47	48.5	90	92.8
LESS EMPHASIS	7	7.2	97	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

2A.GOALS SOURCE..TEXTBOOK

CSITXTG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NEVER USED	2	2.1	2	2.1
OCCASIONALLY USE	8	8.4	10	10.5
FREQUENTLY USED	85	89.5	95	100.0

2A.PRESENTATION SOURCE..TEXTBOOK

CSITXTP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NEVER USED	2	2.1	2	2.1
OCCASIONALLY USE	16	17.0	18	19.1
FREQUENTLY USED	76	80.9	94	100.0

2A.DRILL SOURCE..TEXTBOOK

CSITXTD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
OCCASIONALLY USE	7	7.4	7	7.4
FREQUENTLY USED	88	92.6	95	100.0

2A.APPLICATIONS SOURCE..TEXTBOOK

CSITXTA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NEVER USED	1	1.1	1	1.1
OCCASIONALLY USE	38	40.4	39	41.5
FREQUENTLY USED	55	58.5	94	100.0

2B.GOALS SOURCE..SYLLABUS

CSISYLG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NEVER USED	4	4.3	4	4.3
OCCASIONALLY USE	35	37.2	39	41.5
FREQUENTLY USED	55	58.5	94	100.0

2B.PRESENTATION SOURCE..SYLLABUS

CSISYLP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NEVER USED	7	7.4	7	7.4
OCCASIONALLY USE	22	23.2	29	30.5
FREQUENTLY USED	66	69.5	95	100.0

2B.DRILL SOURCE..SYLLABUS

CSISYLD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NEVER USED	18	20.2	18	20.2
OCCASIONALLY USE	42	47.2	60	67.4
FREQUENTLY USED	29	32.6	89	100.0

2B.APPLICATIONS SOURCE..SYLLABUS

CSISYLA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	25	27.2	25	27.2
OCCASIONALLY USE	44	47.8	69	75.0
FREQUENTLY USED	23	25.0	92	100.0

2C.GOALS SOURCE..MIN COMPETENCIES

CSIMING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	33	35.5	33	35.5
OCCASIONALLY USE	39	41.9	72	77.4
FREQUENTLY USED	21	22.6	93	100.0

2C.PRESENTATION SOURCE..MIN COMPETENCIES

CSIMINP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	28	30.1	28	30.1
OCCASIONALLY USE	30	32.3	58	62.4
FREQUENTLY USED	35	37.6	93	100.0

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THAILAND - POPULATION A

2C.DRILL SOURCE..MIN COMPETENCIES

CSIMIND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	35	37.6	35	37.6
OCCASIONALLY USE	29	31.2	64	68.8
FREQUENTLY USED	29	31.2	93	100.0

2C.APPLICATIONS SOURCE..MIN COMPETENCIES

CSIMINA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	35	38.0	35	38.0
OCCASIONALLY USE	34	37.0	69	75.0
FREQUENTLY USED	23	25.0	92	100.0

2D.GOALS SOURCE..EXTERNAL EXAMS

CSIEXTG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	47	50.5	47	50.5
OCCASIONALLY USE	42	45.2	89	95.7
FREQUENTLY USED	4	4.3	93	100.0

2D.PRESENTATION SOURCE..EXTERNAL EXAMS

CSIEXTP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	51	54.8	51	54.8
OCCASIONALLY USE	34	36.6	85	91.4
FREQUENTLY USED	8	8.6	93	100.0

2D.DRILL SOURCE..EXTERNAL EXAMS

CSIEXTD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	35	37.6	35	37.6
OCCASIONALLY USE	43	46.2	78	83.9
FREQUENTLY USED	15	16.1	93	100.0

2D.APPLICATIONS SOURCE..EXTERNAL EXAMS

CSIEXTA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NEVER USED	38	40.4	38	40.4
OCCASIONALLY USE	39	41.5	77	81.9
FREQUENTLY USED	17	18.1	94	100.0

2E.GOALS SOURCE..JOURNALS, BOOKS

CSIJRNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	41	44.6	41	44.6
OCCASIONALLY USE	48	52.2	89	96.7
FREQUENTLY USED	3	3.3	92	100.0

2E.PRESENTATION SOURCE..JOURNALS, BOOKS

CSIJRNP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	40	43.5	40	43.5
OCCASIONALLY USE	43	46.7	83	90.2
FREQUENTLY USED	9	9.8	92	100.0

2E.DRILL SOURCE..JOURNALS, BOOKS

CSIJRND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	30	32.6	30	32.6
OCCASIONALLY USE	48	52.2	78	84.8
FREQUENTLY USED	14	15.2	92	100.0

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2E.APPLICATIONS SOURCE..JOURNALS, BOOKS

CSIJRNA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
NEVER USED	29	31.9	29	31.9
OCCASIONALLY USE	45	49.5	74	81.3
FREQUENTLY USED	17	18.7	91	100.0

2F.GOALS SOURCE..BY YOURSELF

CSISLFG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	15	16.1	15	16.1
OCCASIONALLY USE	58	62.4	73	78.5
FREQUENTLY USED	20	21.5	93	100.0

2F.PRESENTATION SOURCE..BY YOURSELF

CSISLFP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	18	19.6	18	19.6
OCCASIONALLY USE	47	51.1	65	70.7
FREQUENTLY USED	27	29.3	92	100.0

2F.DRILL SOURCE..BY YOURSELF

CSISLFD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NEVER USED	18	20.0	18	20.0
OCCASIONALLY USE	51	56.7	69	76.7
FREQUENTLY USED	21	23.3	90	100.0

2F.APPLICATIONS SOURCE..BY YOURSELF

CSISLFA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
NEVER USED	23	25.3	23	25.3
OCCASIONALLY USE	50	54.9	73	80.2
FREQUENTLY USED	18	19.8	91	100.0

2G.GOALS SOURCE..OTHER TEACHERS

CSIOTHG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	39	41.9	39	41.9
OCCASIONALLY USE	47	50.5	86	92.5
FREQUENTLY USED	7	7.5	93	100.0

2G.PRESENTATION SOURCE..OTHER TEACHERS

CSIOTHP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NEVER USED	35	37.2	35	37.2
OCCASIONALLY USE	55	58.5	90	95.7
FREQUENTLY USED	4	4.3	94	100.0

2G.DRILL SOURCE..OTHER TEACHERS

CSIOTHD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	36	38.7	36	38.7
OCCASIONALLY USE	50	53.8	86	92.5
FREQUENTLY USED	7	7.5	93	100.0

2G.APPLICATIONS SOURCE..OTHER TEACHERS

CSIOTHA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	43	46.2	43	46.2
OCCASIONALLY USE	47	50.5	90	96.8
FREQUENTLY USED	3	3.2	93	100.0

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THAILAND - POPULATION A

2H.GOALS SOURCE..PROF MEETINGS

CSIPROG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	50	53.8	50	53.8
OCCASIONALLY USE	38	40.9	88	94.6
FREQUENTLY USED	5	5.4	93	100.0

2H.PRESENTATION SOURCE..PROF MEETINGS

CSIPROP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
NEVER USED	57	62.0	57	62.0
OCCASIONALLY USE	32	34.8	89	96.7
FREQUENTLY USED	3	3.3	92	100.0

2H.DRILL SOURCE..PROF MEETINGS

CSIPROD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	64	68.8	64	68.8
OCCASIONALLY USE	27	29.0	91	97.8
FREQUENTLY USED	2	2.2	93	100.0

2H.APPLICATIONS SOURCE..PROF MEETINGS

CSIPROA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	6	.	.	.
NEVER USED	67	72.0	67	72.0
OCCASIONALLY USE	25	26.9	92	98.9
FREQUENTLY USED	1	1.1	93	100.0

3A.DIFFICULTY WITHOUT..PUBLISHED VISUALS

CDWVPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT APPLICABLE	72	74.2	72	74.2
VERY EASY	2	2.1	74	76.3
FAIRLY EASY	10	10.3	84	86.6
FAIRLY DIFFICULT	10	10.3	94	96.9
VERY DIFFICULT	3	3.1	97	100.0

3B.DIFFICULTY WITHOUT..VISUALS YOURSELF

CDWVSLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT APPLICABLE	54	55.7	54	55.7
VERY EASY	3	3.1	57	58.8
FAIRLY EASY	16	16.5	73	75.3
FAIRLY DIFFICULT	24	24.7	97	100.0

3C.DIFFICULTY WITHOUT..PROBLEMS YOURSELF

CDWPSLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT APPLICABLE	6	6.3	6	6.3
VERY EASY	7	7.3	13	13.5
FAIRLY EASY	38	39.6	51	53.1
FAIRLY DIFFICULT	37	38.5	88	91.7
VERY DIFFICULT	8	8.3	96	100.0

3D.DIFFICULTY WITHOUT..PUBLISHED TESTS

CDWTPUB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NOT APPLICABLE	12	12.6	12	12.6
VERY EASY	8	8.4	20	21.1
FAIRLY EASY	44	46.3	64	67.4
FAIRLY DIFFICULT	27	28.4	91	95.8
VERY DIFFICULT	4	4.2	95	100.0

3E.DIFFICULTY WITHOUT..ADVICE FROM ADMIN

CDWADVA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT APPLICABLE	23	23.7	23	23.7
VERY EASY	12	12.4	35	36.1
FAIRLY EASY	37	38.1	72	74.2
FAIRLY DIFFICULT	23	23.7	95	97.9
VERY DIFFICULT	2	2.1	97	100.0

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3F.DIFFICULTY WITHOUT..TESTS BY YOURSELF

CDWTSLF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	5	.	.	.
NOT APPLICABLE	6	6.4	6	6.4
VERY EASY	6	6.4	12	12.8
FAIRLY EASY	24	25.5	36	38.3
FAIRLY DIFFICULT	46	48.9	82	87.2
VERY DIFFICULT	12	12.8	94	100.0

3G.DIFFICULTY WITHOUT..PUBLISHED TEXTBKS

CDWTEXT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
VERY EASY	2	2.1	2	2.1
FAIRLY EASY	5	5.2	7	7.3
FAIRLY DIFFICULT	34	35.4	41	42.7
VERY DIFFICULT	55	57.3	96	100.0

3H.DIFFICULTY WITHOUT..PUBLISHED WORKBKS

CDWWBK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT APPLICABLE	12	12.5	12	12.5
VERY EASY	4	4.2	16	16.7
FAIRLY EASY	22	22.9	38	39.6
FAIRLY DIFFICULT	30	31.3	68	70.8
VERY DIFFICULT	28	29.2	96	100.0

3I.DIFFICULTY WITHOUT..EXAMPLES MADE UP

CDWEXP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT APPLICABLE	1	1.0	1	1.0
VERY EASY	2	2.1	3	3.1
FAIRLY EASY	18	18.8	21	21.9
FAIRLY DIFFICULT	50	52.1	71	74.0
VERY DIFFICULT	25	26.0	96	100.0

3J.DIFFICULTY WITHOUT..OFFICIAL SYLLABUS

CDWSYL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
FAIRLY EASY	5	5.2	5	5.2
FAIRLY DIFFICULT	30	30.9	35	36.1
VERY DIFFICULT	62	63.9	97	100.0

3K.DIFFICULTY WITHOUT..RECALL FROM MATH

CDWMEMM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
FAIRLY EASY	10	10.4	10	10.4
FAIRLY DIFFICULT	38	39.6	48	50.0
VERY DIFFICULT	48	50.0	96	100.0

3L.DIFFICULTY WITHOUT..RECALL FROM EDUC

CDWMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NOT APPLICABLE	3	3.1	3	3.1
FAIRLY EASY	19	19.8	22	22.9
FAIRLY DIFFICULT	47	49.0	69	71.9
VERY DIFFICULT	27	28.1	96	100.0

3M.DIFFICULTY WITHOUT..ADVICE FROM TEACH

CDWADVT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NOT APPLICABLE	19	19.6	19	19.6
VERY EASY	16	16.5	35	36.1
FAIRLY EASY	33	34.0	68	70.1
FAIRLY DIFFICULT	25	25.8	93	95.9
VERY DIFFICULT	4	4.1	97	100.0

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3N.DIFFICULTY WITHOUT..KNOWLEDGE OF EXAM

CDWEXAM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NOT APPLICABLE	10	10.5	10	10.5
VERY EASY	6	6.3	16	16.8
FAIRLY EASY	26	27.4	42	44.2
FAIRLY DIFFICULT	33	34.7	75	78.9
VERY DIFFICULT	20	21.1	95	100.0

4A.WHOLE CLASS WORKING AS A SINGLE GROUP

CGRPWHL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	1	1.1	1	1.1
1 TO 20 PCT	9	10.0	10	11.1
21 TO 40 PCT	13	14.4	23	25.6
41 TO 60 PCT	37	41.1	60	66.7
61 TO 80 PCT	22	24.4	82	91.1
81 TO 100 PCT	8	8.9	90	100.0

4B.SMALL GROUP INSTRUCTION

CGRPSMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	18	20.0	18	20.0
1 TO 20 PCT	54	60.0	72	80.0
21 TO 40 PCT	15	16.7	87	96.7
41 TO 60 PCT	2	2.2	89	98.9
61 TO 80 PCT	1	1.1	90	100.0

4C.ALL STUDENTS WORKING INDIVIDUALLY

CGRPIND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
NONE	3	3.3	3	3.3
1 TO 20 PCT	42	46.7	45	50.0
21 TO 40 PCT	34	37.8	79	87.8
41 TO 60 PCT	8	8.9	87	96.7
61 TO 80 PCT	2	2.2	89	98.9
81 TO 100 PCT	1	1.1	90	100.0

4D.OTHER GROUPING ARRANGMENT

CGRPOTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
NONE	63	70.8	63	70.8
1 TO 20 PCT	21	23.6	84	94.4
21 TO 40 PCT	4	4.5	88	98.9
41 TO 60 PCT	1	1.1	89	100.0

5A.MOST ABLE STUDENTS WORK SEPARATELY

CSGMAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	46	.	.	.
YES	26	49.1	26	49.1
NO	16	30.2	42	79.2
NONE OCCURS REG	11	20.8	53	100.0

5B.LEAST ABLE STUDENTS WORK SEPARATELY

CSGLAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	46	.	.	.
YES	9	17.0	9	17.0
NO	33	62.3	42	79.2
NONE OCCURS REG	11	20.8	53	100.0

5C.CLASS SPLIT INTO THREE OR MORE GROUPS

CSGMANY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	46	.	.	.
YES	27	50.9	27	50.9
NO	15	28.3	42	79.2
NONE OCCURS REG	11	20.8	53	100.0

6. SAME OR VARIED CONTENT OR PACING

CPACING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
ALL SAME	39	44.3	39	44.3
VARY PACE	45	51.1	84	95.5
VARY CONTENT	4	4.5	88	100.0

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7. SAME OR VARIED EXERCISES AND PROBLEMS

CDASSGN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	7	.	.	.
ALL SAME	78	84.8	78	84.8
VARY DUE DATE	12	13.0	90	97.8
VARY ASSIGNMENTS	2	2.2	92	100.0

8A.SOME STUDENTS..MORE EXERCISES

CHDMORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
YES	4	40.0	4	40.0
NO	6	60.0	10	100.0

8B.SOME STUDENTS..DIFFICULT EXERCISES

CHDHARD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
YES	6	60.0	6	60.0
NO	4	40.0	10	100.0

8C.SOME STUDENTS..OTHER TOPICS

CHDTOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	89	.	.	.
NO	10	100.0	10	100.0

9A.PROGRESS..STUDENT LACK OF ABILITY

CPGABIL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	10	.	.	.
VERY IMPORTANT	42	47.2	42	47.2
IMPORTANT	38	42.7	80	89.9
NOT IMPORTANT	9	10.1	89	100.0

9B.PROGRESS..STUDENT MISBEHAVIOUR

CPGMISB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY IMPORTANT	21	23.3	21	23.3
IMPORTANT	35	38.9	56	62.2
NOT IMPORTANT	34	37.8	90	100.0

9C.PROGRESS..STUDENT INDIFFERENCE

CPGINDF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY IMPORTANT	53	58.9	53	58.9
IMPORTANT	34	37.8	87	96.7
NOT IMPORTANT	3	3.3	90	100.0

9D.PROGRESS..FEAR OF MATHEMATICS

CPGFEAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY IMPORTANT	28	31.1	28	31.1
IMPORTANT	37	41.1	65	72.2
NOT IMPORTANT	25	27.8	90	100.0

9E.PROGRESS..STUDENT ABSENTEEISM

CPGABS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY IMPORTANT	58	64.4	58	64.4
IMPORTANT	24	26.7	82	91.1
NOT IMPORTANT	8	8.9	90	100.0

9F.PROGRESS..INSUFFICIENT SCHOOL TIME

CPGTIME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY IMPORTANT	30	33.3	30	33.3
IMPORTANT	37	41.1	67	74.4
NOT IMPORTANT	23	25.6	90	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

9G.PROGRESS..PROFICIENCY ON YOUR PART

CPGPROF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
VERY IMPORTANT	24	27.3	24	27.3
IMPORTANT	39	44.3	63	71.6
NOT IMPORTANT	25	28.4	88	100.0

9H.PROGRESS..LIMITED RESOURCES

CPGLIM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	9	.	.	.
VERY IMPORTANT	29	32.2	29	32.2
IMPORTANT	47	52.2	76	84.4
NOT IMPORTANT	14	15.6	90	100.0

9I.PROGRESS..TOO MANY STUDENTS

CPGMANY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	11	.	.	.
VERY IMPORTANT	27	30.7	27	30.7
IMPORTANT	38	43.2	65	73.9
NOT IMPORTANT	23	26.1	88	100.0

9J.PROGRESS..OTHER REASONS

CPGOTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	96	.	.	.
VERY IMPORTANT	2	66.7	2	66.7
IMPORTANT	1	33.3	3	100.0

10.STUDENTS ESPECIALLY FEARFUL ANXIOUS

CFEAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NONE	1	1.0	1	1.0
1 TO 3	43	44.3	44	45.4
4 TO 6	53	54.6	97	100.0

11.TARGET CLASS EASY/DIFFICULT TO TEACH

CTCLASS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
FAIRLY EASY	13	13.4	13	13.4
NEUTRAL	46	47.4	59	60.8
FAIRLY DIFFICULT	25	25.8	84	86.6
VERY DIFFICULT	13	13.4	97	100.0

12. DO YOU FIND MATH EASY DIFFICULT TO T

CTMATH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
VERY EASY	6	6.2	6	6.2
FAIRLY EASY	21	21.6	27	27.8
NEUTRAL	30	30.9	57	58.8
FAIRLY DIFFICULT	39	40.2	96	99.0
VERY DIFFICULT	1	1.0	97	100.0

13A.TARGET CLASS..ATTENTIVE

CTCATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
1 THRU 10	19	19.6	19	19.6
11 THRU 15	18	18.6	37	38.1
16 THRU 20	16	16.5	53	54.6
21 THRU 25	10	10.3	63	64.9
26 THRU 30	11	11.3	74	76.3
31 THRU 50	23	23.7	97	100.0

13B.TARGET CLASS..NOT ATTENTIVE

CTCNATT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NONE	5	5.2	5	5.2
1 THRU 5	18	18.8	23	24.0
6 THRU 10	25	26.0	48	50.0
11 THRU 15	18	18.8	66	68.7
16 THRU 20	14	14.6	80	83.3
21 THRU 998	16	16.7	96	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

13C.TARGET CLASS..BEHAVIOUR PROBLEMS

CTCBEHV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	8	.	.	.
NONE	33	36.3	33	36.3
1 THRU 5	30	33.0	63	69.2
6 THRU 10	14	15.4	77	84.6
11 THRU 15	12	13.2	89	97.8
16 THRU 20	2	2.2	91	100.0

13D.TARGET CLASS..OTHER KINDS

CTCOTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	25	.	.	.
NONE	43	58.1	43	58.1
1 THRU 5	14	18.9	57	77.0
6 THRU 10	12	16.2	69	93.2
11 THRU 15	3	4.1	72	97.3
16 THRU 20	2	2.7	74	100.0

14-1.RATING..TALK TO INDIVIDUAL STUDENTS

CETALK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	2	2.1	2	2.1
SOME IMPORTANCE	27	27.8	29	29.9
MAJOR IMPORTANCE	38	39.2	67	69.1
HIGHEST IMPORTAN	30	30.9	97	100.0

14-2.RATING..STIMULATE COMPETITION

CECOMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	1	1.0	1	1.0
SOME IMPORTANCE	16	16.5	17	17.5
MAJOR IMPORTANCE	51	52.6	68	70.1
HIGHEST IMPORTAN	29	29.9	97	100.0

14-3.RATING..GIVE LESS ABLE SIMPLE TASKS

CESIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	9	9.3	9	9.3
SOME IMPORTANCE	32	33.0	41	42.3
MAJOR IMPORTANCE	40	41.2	81	83.5
HIGHEST IMPORTAN	16	16.5	97	100.0

14-4.RATING..PRAISE STUDENT WHEN CORRECT

CEPRSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	1	1.0	1	1.0
SOME IMPORTANCE	10	10.3	11	11.3
MAJOR IMPORTANCE	44	45.4	55	56.7
HIGHEST IMPORTAN	42	43.3	97	100.0

14-5.RATING..PLAN TRANSITIONS

CETRAN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NO IMPORTANCE	5	5.2	5	5.2
SOME IMPORTANCE	32	33.3	37	38.5
MAJOR IMPORTANCE	40	41.7	77	80.2
HIGHEST IMPORTAN	19	19.8	96	100.0

14-6.RATING..MAKE ENCOURAGING REMARKS

CERMRK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	1	1.0	1	1.0
SOME IMPORTANCE	29	29.9	30	30.9
MAJOR IMPORTANCE	47	48.5	77	79.4
HIGHEST IMPORTAN	20	20.6	97	100.0

14-7.RATING..CHANGE ACTIVITY IF NO ATTN

CECHNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NO IMPORTANCE	3	3.1	3	3.1
SOME IMPORTANCE	30	31.3	33	34.4
MAJOR IMPORTANCE	40	41.7	73	76.0
HIGHEST IMPORTAN	23	24.0	96	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

14-8.RATING..MORE ABLE GET HARD PROBLEMS

CEHPROB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	6	6.2	6	6.2
SOME IMPORTANCE	31	32.0	37	38.1
MAJOR IMPORTANCE	46	47.4	83	85.6
HIGHEST IMPORTAN	14	14.4	97	100.0

14-9.RATING..CORRECT FALSE STATMETS

CECORRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NO IMPORTANCE	2	2.1	2	2.1
SOME IMPORTANCE	10	10.4	12	12.5
MAJOR IMPORTANCE	44	45.8	56	58.3
HIGHEST IMPORTAN	40	41.7	96	100.0

14-10.RATING..SUMMARIZE AT END OF PERIOD

CESUM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	8	8.2	8	8.2
MAJOR IMPORTANCE	46	47.4	54	55.7
HIGHEST IMPORTAN	43	44.3	97	100.0

14-11.RATING..PRESENT HIGHLY STRUCTURED

CESTRC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
SOME IMPORTANCE	9	9.4	9	9.4
MAJOR IMPORTANCE	39	40.6	48	50.0
HIGHEST IMPORTAN	48	50.0	96	100.0

14-12.RATING..ACTION DEAL WITH DISCOMFRT

CEACT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	5	5.2	5	5.2
MAJOR IMPORTANCE	56	57.7	61	62.9
HIGHEST IMPORTAN	36	37.1	97	100.0

14-13.RATING..CLEAR RULES FOR BEHAVIOUR

CERULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NO IMPORTANCE	5	5.2	5	5.2
SOME IMPORTANCE	38	39.6	43	44.8
MAJOR IMPORTANCE	42	43.8	85	88.5
HIGHEST IMPORTAN	11	11.5	96	100.0

14-14.RATING..VARY DIFFICULTY OF QUESTNS

CEVARY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	24	24.7	24	24.7
MAJOR IMPORTANCE	53	54.6	77	79.4
HIGHEST IMPORTAN	20	20.6	97	100.0

14-15.RATING..FREQ INDIVIDUAL FEEDBACK

CEFEED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	1	1.0	1	1.0
SOME IMPORTANCE	18	18.6	19	19.6
MAJOR IMPORTANCE	40	41.2	59	60.8
HIGHEST IMPORTAN	38	39.2	97	100.0

14-16.RATING..CLEAR UP PREVIOUS PROBLEMS

CEPREV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	8	8.2	8	8.2
MAJOR IMPORTANCE	42	43.3	50	51.5
HIGHEST IMPORTAN	47	48.5	97	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

14-17.RATING..WARM PERSONAL RELATIONSHIP

CEWARM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	10	10.3	10	10.3
MAJOR IMPORTANCE	41	42.3	51	52.6
HIGHEST IMPORTAN	46	47.4	97	100.0

14-18.RATING..DISCUSSIONS MAY GO LONGER

CELONG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	11	11.3	11	11.3
SOME IMPORTANCE	33	34.0	44	45.4
MAJOR IMPORTANCE	40	41.2	84	86.6
HIGHEST IMPORTAN	13	13.4	97	100.0

14-19.RATING..OPPORTUNITY FOR DISCOVERY

CEDSCV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	2	2.1	2	2.1
SOME IMPORTANCE	21	21.6	23	23.7
MAJOR IMPORTANCE	50	51.5	73	75.3
HIGHEST IMPORTAN	24	24.7	97	100.0

14-20.RATING..GET READY BEFORE CLASS

CERDY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	3	3.1	3	3.1
SOME IMPORTANCE	19	19.6	22	22.7
MAJOR IMPORTANCE	48	49.5	70	72.2
HIGHEST IMPORTAN	27	27.8	97	100.0

14-21.RATING..BEGIN BY OUTLINE CONTENT

CEOUTLN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	11	11.3	11	11.3
SOME IMPORTANCE	56	57.7	67	69.1
MAJOR IMPORTANCE	19	19.6	86	88.7
HIGHEST IMPORTAN	11	11.3	97	100.0

14-22.RATING..MAKE PRESENTATIONS LIVELY

CELVLY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	8	8.2	8	8.2
MAJOR IMPORTANCE	43	44.3	51	52.6
HIGHEST IMPORTAN	46	47.4	97	100.0

14-23.RATING..ANTICIPATE QUESTIONS

CEANTCQ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	4	4.1	4	4.1
SOME IMPORTANCE	39	40.2	43	44.3
MAJOR IMPORTANCE	39	40.2	82	84.5
HIGHEST IMPORTAN	15	15.5	97	100.0

14-24.RATING..AVOID CRITICAL OF ANSWERS

CECRIT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	4	.	.	.
NO IMPORTANCE	23	24.2	23	24.2
SOME IMPORTANCE	37	38.9	60	63.2
MAJOR IMPORTANCE	24	25.3	84	88.4
HIGHEST IMPORTAN	11	11.6	95	100.0

14-25.RATING..CALL ON NON-VOLUNTEERS

CECALL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NO IMPORTANCE	4	4.2	4	4.2
SOME IMPORTANCE	43	44.8	47	49.0
MAJOR IMPORTANCE	41	42.7	88	91.7
HIGHEST IMPORTAN	8	8.3	96	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

14-26.RATING..FIND SPECIFIC WEAKNESSES

CESPWK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	2	2.1	2	2.1
SOME IMPORTANCE	25	25.8	27	27.8
MAJOR IMPORTANCE	49	50.5	76	78.4
HIGHEST IMPORTAN	21	21.6	97	100.0

14-27.RATING..WRITE MEANINGFUL COMMENTS

CECMMNT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	8	8.2	8	8.2
SOME IMPORTANCE	32	33.0	40	41.2
MAJOR IMPORTANCE	44	45.4	84	86.6
HIGHEST IMPORTAN	13	13.4	97	100.0

14-28.RATING..MORE ENCOURAGMENT TO GIRLS

CEGIRLS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	14	14.4	14	14.4
SOME IMPORTANCE	33	34.0	47	48.5
MAJOR IMPORTANCE	37	38.1	84	86.6
HIGHEST IMPORTAN	13	13.4	97	100.0

14-29.RATING..INTERVENE..FOOLING AROUND

CEFOOL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
SOME IMPORTANCE	4	4.1	4	4.1
MAJOR IMPORTANCE	43	44.3	47	48.5
HIGHEST IMPORTAN	50	51.5	97	100.0

14-30.RATING..SAY GOOD ABOUT ANSWERS

CESAYGD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	3	3.1	3	3.1
SOME IMPORTANCE	12	12.4	15	15.5
MAJOR IMPORTANCE	48	49.5	63	64.9
HIGHEST IMPORTAN	34	35.1	97	100.0

14-31.RATING..CHANGE FOR SAKE OF VARIETY

CEVRTY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	4	4.1	4	4.1
SOME IMPORTANCE	19	19.6	23	23.7
MAJOR IMPORTANCE	59	60.8	82	84.5
HIGHEST IMPORTAN	15	15.5	97	100.0

14-32.RATING..TRUELY DIFFICULT PROBLEMS

CETRDIF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	6	6.2	6	6.2
SOME IMPORTANCE	36	37.1	42	43.3
MAJOR IMPORTANCE	37	38.1	79	81.4
HIGHEST IMPORTAN	18	18.6	97	100.0

14-33.RATING..REVIEW TESTS AFTER GRADING

CERVTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	2	2.1	2	2.1
SOME IMPORTANCE	25	25.8	27	27.8
MAJOR IMPORTANCE	51	52.6	78	80.4
HIGHEST IMPORTAN	19	19.6	97	100.0

14-34.RATING..FORSTALL STUDENT DISTURBNC

CEFORST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	13	13.4	13	13.4
SOME IMPORTANCE	34	35.1	47	48.5
MAJOR IMPORTANCE	41	42.3	88	90.7
HIGHEST IMPORTAN	9	9.3	97	100.0

CLASSROOM PROCESS GENERAL QUESTIONNAIRE
THAILAND - POPULATION A

14-35.RATING..STUDENTS KNOW WHAT TO DO

CEKNDO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	12	12.4	12	12.4
SOME IMPORTANCE	37	38.1	49	50.5
MAJOR IMPORTANCE	39	40.2	88	90.7
HIGHEST IMPORTAN	9	9.3	97	100.0

14-36.RATING..STUDENT PREF INTO ACCOUNT

CESTPRF	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	4	4.1	4	4.1
SOME IMPORTANCE	33	34.0	37	38.1
MAJOR IMPORTANCE	45	46.4	82	84.5
HIGHEST IMPORTAN	15	15.5	97	100.0

14-37.RATING..STOP MATTERS NOT RELATED

CESTOP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3	.	.	.
NO IMPORTANCE	27	28.1	27	28.1
SOME IMPORTANCE	52	54.2	79	82.3
MAJOR IMPORTANCE	9	9.4	88	91.7
HIGHEST IMPORTAN	8	8.3	96	100.0

14-38.RATING..GIVE TAILORED ASSIGNMENTS

CETAIL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	9	9.3	9	9.3
SOME IMPORTANCE	30	30.9	39	40.2
MAJOR IMPORTANCE	43	44.3	82	84.5
HIGHEST IMPORTAN	15	15.5	97	100.0

14-39.RATING..STUDENTS IN DIFFICULTY

CEIDENT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	4	4.1	4	4.1
SOME IMPORTANCE	23	23.7	27	27.8
MAJOR IMPORTANCE	54	55.7	81	83.5
HIGHEST IMPORTAN	16	16.5	97	100.0

14-40.RATING..MATH APPROPRIATE FOR GIRLS

CEGAPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	17	17.5	17	17.5
SOME IMPORTANCE	24	24.7	41	42.3
MAJOR IMPORTANCE	33	34.0	74	76.3
HIGHEST IMPORTAN	23	23.7	97	100.0

14-41.RATING..STEP BY STEP INSTRUCTIONS

CESTEP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2	.	.	.
NO IMPORTANCE	3	3.1	3	3.1
SOME IMPORTANCE	22	22.7	25	25.8
MAJOR IMPORTANCE	36	37.1	61	62.9
HIGHEST IMPORTAN	36	37.1	97	100.0

THAA3

Achievement Item level - Pre test

THAILAND -- POPULATION A
AVAILABILITY OF TEST FORMS

FLAG FOR CORE TEST-PRETEST

XCORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	18	0.4	18	0.4
AVAILABLE	4012	99.6	4030	100.0

FLAG FOR ROTATED FORM 1-PRETEST

XFORMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3022	75.0	3022	75.0
AVAILABLE	1008	25.0	4030	100.0

FLAG FOR ROTATED FORM 2-PRETEST

XFORMB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3004	74.5	3004	74.5
AVAILABLE	1026	25.5	4030	100.0

FLAG FOR ROTATED FORM 3-PRETEST

XFORMC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3045	75.6	3045	75.6
AVAILABLE	985	24.4	4030	100.0

FLAG FOR ROTATED FORM 4-PRETEST

XFORMD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3035	75.3	3035	75.3
AVAILABLE	995	24.7	4030	100.0

FLAG FOR CORE TEST-POSTTEST

YCORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	207	5.1	207	5.1
AVAILABLE	3823	94.9	4030	100.0

FLAG FOR ROTATED FORM 1-POSTTEST

YFORMA	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3095	76.8	3095	76.8
AVAILABLE	935	23.2	4030	100.0

FLAG FOR ROTATED FORM 2-POSTTEST

YFORMB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3091	.	.	.
AVAILABLE	939	100.0	939	100.0

FLAG FOR ROTATED FORM 3-POSTTEST

YFORMC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3066	76.1	3066	76.1
AVAILABLE	964	23.9	4030	100.0

FLAG FOR ROTATED FORM 4-POSTTEST

YFORMD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	3059	75.9	3059	75.9
AVAILABLE	971	24.1	4030	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3060	.	.	.
A	580	59.8	580	59.8
B	77	7.9	657	67.7
C	129	13.3	786	81.0
D	84	8.7	870	89.7
E	100	10.3	970	100.0

XR002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3067	.	.	.
A	256	26.6	256	26.6
B	327	34.0	583	60.5
C	142	14.7	725	75.3
D	59	6.1	784	81.4
E	179	18.6	963	100.0

XR003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
A	1563	39.4	1563	39.4
B	670	16.9	2233	56.4
C	408	10.3	2641	66.7
D	201	5.1	2842	71.7
E	1120	28.3	3962	100.0

XR004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3058	.	.	.
A	49	5.0	49	5.0
B	99	10.2	148	15.2
C	108	11.1	256	26.3
D	618	63.6	874	89.9
E	98	10.1	972	100.0

XR005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
A	752	19.0	752	19.0
B	409	10.3	1161	29.4
C	1574	39.8	2735	69.2
D	483	12.2	3218	81.4
E	735	18.6	3953	100.0

XR006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3011	.	.	.
A	56	5.5	56	5.5
B	608	59.7	664	65.2
C	247	24.2	911	89.4
D	15	1.5	926	90.9
E	93	9.1	1019	100.0

XR007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3118	.	.	.
A	286	31.4	286	31.4
B	197	21.6	483	53.0
C	268	29.4	751	82.3
D	77	8.4	828	90.8
E	84	9.2	912	100.0

XR008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
A	1229	30.9	1229	30.9
B	199	5.0	1428	35.9
C	129	3.2	1557	39.1
D	330	8.3	1887	47.4
E	2095	52.6	3982	100.0

XR009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	145	.	.	.
A	1062	27.3	1062	27.3
B	626	16.1	1688	43.4
C	1042	26.8	2730	70.3
D	643	16.6	3373	86.8
E	512	13.2	3885	100.0

XR010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3016	.	.	.
A	37	3.6	37	3.6
B	213	21.0	250	24.7
C	76	7.5	326	32.1
D	271	26.7	597	58.9
E	417	41.1	1014	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3078	.	.	.
A	76	8.0	76	8.0
B	78	8.2	154	16.2
C	146	15.3	300	31.5
D	87	9.1	387	40.7
E	565	59.3	952	100.0

XR012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	44	.	.	.
A	2595	65.1	2595	65.1
B	481	12.1	3076	77.2
C	416	10.4	3492	87.6
D	141	3.5	3633	91.1
E	353	8.9	3986	100.0

XR013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
A	375	9.4	375	9.4
B	955	24.0	1330	33.5
C	264	6.6	1594	40.1
D	1564	39.3	3158	79.4
E	818	20.6	3976	100.0

XR014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3090	.	.	.
A	109	11.6	109	11.6
B	140	14.9	249	26.5
C	306	32.6	555	59.0
D	167	17.8	722	76.8
E	218	23.2	940	100.0

XR015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
A	172	18.1	172	18.1
B	234	24.6	406	42.7
C	350	36.8	756	79.5
D	146	15.4	902	94.8
E	49	5.2	951	100.0

XR016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
A	134	14.1	134	14.1
B	209	22.0	343	36.1
C	103	10.8	446	46.9
D	288	30.3	734	77.2
E	217	22.8	951	100.0

XR017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	134	.	.	.
A	802	20.6	802	20.6
B	453	11.6	1255	32.2
C	1681	43.1	2936	75.4
D	387	9.9	3323	85.3
E	573	14.7	3896	100.0

XR018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3047	.	.	.
A	408	41.5	408	41.5
B	153	15.6	561	57.1
C	162	16.5	723	73.6
D	124	12.6	847	86.2
E	136	13.8	983	100.0

XR019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	211	.	.	.
A	1098	28.8	1098	28.8
B	723	18.9	1821	47.7
C	937	24.5	2758	72.2
D	694	18.2	3452	90.4
E	367	9.6	3819	100.0

XR021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3055	.	.	.
A	62	6.4	62	6.4
B	217	22.3	279	28.6
C	107	11.0	386	39.6
D	106	10.9	492	50.5
E	483	49.5	975	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3043	.	.	.
A	486	49.2	486	49.2
B	89	9.0	575	58.3
C	302	30.6	877	88.9
D	59	6.0	936	94.8
E	51	5.2	987	100.0

XR023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	82	.	.	.
A	318	8.1	318	8.1
B	472	12.0	790	20.0
C	1061	26.9	1851	46.9
D	1702	43.1	3553	90.0
E	395	10.0	3948	100.0

XR024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
A	40	4.2	40	4.2
B	75	7.9	115	12.1
C	146	15.4	261	27.4
D	506	53.2	767	80.7
E	184	19.3	951	100.0

XR025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
A	679	68.1	679	68.1
B	157	15.7	836	83.9
C	48	4.8	884	88.7
D	86	8.6	970	97.3
E	27	2.7	997	100.0

XR026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3060	.	.	.
A	106	10.9	106	10.9
B	525	54.1	631	65.1
C	187	19.3	818	84.3
D	73	7.5	891	91.9
E	79	8.1	970	100.0

XR027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3061	.	.	.
A	133	13.7	133	13.7
B	201	20.7	334	34.5
C	165	17.0	499	51.5
D	251	25.9	750	77.4
E	219	22.6	969	100.0

XR028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	121	.	.	.
A	1323	33.8	1323	33.8
B	286	7.3	1609	41.2
C	375	9.6	1984	50.8
D	1789	45.8	3773	96.5
E	136	3.5	3909	100.0

XR029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3114	.	.	.
A	169	18.4	169	18.4
B	164	17.9	333	36.4
C	212	23.1	545	59.5
D	182	19.9	727	79.4
E	189	20.6	916	100.0

XR030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3041	.	.	.
A	151	15.3	151	15.3
B	74	7.5	225	22.8
C	494	49.9	719	72.7
D	119	12.0	838	84.7
E	151	15.3	989	100.0

XR031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	170	.	.	.
A	786	20.4	786	20.4
B	729	18.9	1515	39.2
C	752	19.5	2267	58.7
D	1119	29.0	3386	87.7
E	474	12.3	3860	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
A	55	6.0	55	6.0
B	71	7.8	126	13.8
C	79	8.6	205	22.4
D	175	19.1	380	41.5
E	535	58.5	915	100.0

XR033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3031	.	.	.
A	764	76.5	764	76.5
B	45	4.5	809	81.0
C	86	8.6	895	89.6
D	19	1.9	914	91.5
E	85	8.5	999	100.0

XR034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3046	.	.	.
A	42	4.3	42	4.3
B	137	13.9	179	18.2
C	733	74.5	912	92.7
D	50	5.1	962	97.8
E	22	2.2	984	100.0

XR035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3110	.	.	.
A	176	19.1	176	19.1
B	144	15.7	320	34.8
C	113	12.3	433	47.1
D	245	26.6	678	73.7
E	242	26.3	920	100.0

XR036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3055	.	.	.
A	51	5.2	51	5.2
B	809	83.0	860	88.2
C	78	8.0	938	96.2
D	24	2.5	962	98.7
E	13	1.3	975	100.0

XR037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3074	.	.	.
A	173	18.1	173	18.1
B	202	21.1	375	39.2
C	166	17.4	541	56.6
D	231	24.2	772	80.8
E	184	19.2	956	100.0

XR038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
A	231	5.8	231	5.8
B	1422	35.7	1653	41.5
C	602	15.1	2255	56.6
D	820	20.6	3075	77.2
E	907	22.8	3982	100.0

XR039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3044	.	.	.
A	170	17.2	170	17.2
B	58	5.9	228	23.1
C	78	7.9	306	31.0
D	21	2.1	327	33.2
E	659	66.8	986	100.0

XR040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3104	.	.	.
A	205	22.1	205	22.1
B	175	18.9	380	41.0
C	273	29.5	653	70.5
D	163	17.6	816	88.1
E	110	11.9	926	100.0

XR041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3047	.	.	.
A	769	78.2	769	78.2
B	98	10.0	867	88.2
C	41	4.2	908	92.4
D	54	5.5	962	97.9
E	21	2.1	983	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3043	.	.	.
A	32	3.2	32	3.2
B	36	3.6	68	6.9
C	487	49.3	555	56.2
D	368	37.3	923	93.5
E	64	6.5	987	100.0

XR043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	152	.	.	.
A	409	10.5	409	10.5
B	1002	25.8	1411	36.4
C	989	25.5	2400	61.9
D	582	15.0	2982	76.9
E	896	23.1	3878	100.0

XR044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	155	16.2	155	16.2
B	409	42.6	564	58.8
C	201	21.0	765	79.8
D	119	12.4	884	92.2
E	75	7.8	959	100.0

XR045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	156	.	.	.
A	567	14.6	567	14.6
B	369	9.5	936	24.2
C	614	15.8	1550	40.0
D	507	13.1	2057	53.1
E	1817	46.9	3874	100.0

XR046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	135	.	.	.
A	711	18.3	711	18.3
B	834	21.4	1545	39.7
C	612	15.7	2157	55.4
D	1435	36.8	3592	92.2
E	303	7.8	3895	100.0

XR047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3059	.	.	.
A	218	22.5	218	22.5
B	192	19.8	410	42.2
C	430	44.3	840	86.5
D	72	7.4	912	93.9
E	59	6.1	971	100.0

XR048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3046	.	.	.
A	274	27.8	274	27.8
B	514	52.2	788	80.1
C	148	15.0	936	95.1
D	25	2.5	961	97.7
E	23	2.3	984	100.0

XR049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3105	.	.	.
A	59	6.4	59	6.4
B	70	7.6	129	13.9
C	162	17.5	291	31.5
D	555	60.0	846	91.5
E	79	8.5	925	100.0

XR052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	483	50.1	483	50.1
B	104	10.8	587	60.8
C	100	10.4	687	71.2
D	93	9.6	780	80.8
E	185	19.2	965	100.0

XR053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
A	179	18.8	179	18.8
B	313	32.8	492	51.6
C	241	25.3	733	76.9
D	105	11.0	838	87.9
E	115	12.1	953	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3046	.	.	.
A	602	61.2	602	61.2
B	37	3.8	639	64.9
C	113	11.5	752	76.4
D	70	7.1	822	83.5
E	162	16.5	984	100.0

XR055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	279	29.1	279	29.1
B	189	19.7	468	48.8
C	219	22.8	687	71.6
D	157	16.4	844	88.0
E	115	12.0	959	100.0

XR057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	90	9.3	90	9.3
B	110	11.4	200	20.7
C	90	9.3	290	30.1
D	419	43.4	709	73.5
E	256	26.5	965	100.0

XR058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3034	.	.	.
A	264	26.5	264	26.5
B	294	29.5	558	56.0
C	130	13.1	688	69.1
D	121	12.1	809	81.2
E	187	18.8	996	100.0

XR059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3021	.	.	.
A	111	11.0	111	11.0
B	82	8.1	193	19.1
C	336	33.3	529	52.4
D	345	34.2	874	86.6
E	135	13.4	1009	100.0

XR062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3021	.	.	.
A	79	7.8	79	7.8
B	269	26.7	348	34.5
C	164	16.3	512	50.7
D	70	6.9	582	57.7
E	427	42.3	1009	100.0

XR063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
A	265	29.0	265	29.0
B	171	18.7	436	47.7
C	195	21.3	631	69.0
D	147	16.1	778	85.0
E	137	15.0	915	100.0

XR065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3057	.	.	.
A	19	2.0	19	2.0
B	209	21.5	228	23.4
C	65	6.7	293	30.1
D	61	6.3	354	36.4
E	619	63.6	973	100.0

XR066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3030	.	.	.
A	50	5.0	50	5.0
B	500	50.0	550	55.0
C	47	4.7	597	59.7
D	285	28.5	882	88.2
E	118	11.8	1000	100.0

XR067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3013	.	.	.
A	29	2.9	29	2.9
B	61	6.0	90	8.8
C	723	71.1	813	79.9
D	101	9.9	914	89.9
E	103	10.1	1017	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
A	87	2.2	87	2.2
B	113	2.8	200	5.0
C	80	2.0	280	7.0
D	236	5.9	516	13.0
E	3466	87.0	3982	100.0

XR069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	56	.	.	.
A	330	8.3	330	8.3
B	3273	82.4	3603	90.7
C	216	5.4	3819	96.1
D	110	2.8	3929	98.9
E	45	1.1	3974	100.0

XR070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3037	.	.	.
A	104	10.5	104	10.5
B	121	12.2	225	22.7
C	242	24.4	467	47.0
D	206	20.7	673	67.8
E	320	32.2	993	100.0

XR071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3028	.	.	.
A	295	29.4	295	29.4
B	169	16.9	464	46.3
C	210	21.0	674	67.3
D	54	5.4	728	72.7
E	274	27.3	1002	100.0

XR072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3048	.	.	.
A	213	21.7	213	21.7
B	287	29.2	500	50.9
C	167	17.0	667	67.9
D	225	22.9	892	90.8
E	90	9.2	982	100.0

XR073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3080	.	.	.
A	20	2.1	20	2.1
B	50	5.3	70	7.4
C	57	6.0	127	13.4
D	77	8.1	204	21.5
E	746	78.5	950	100.0

XR074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3051	.	.	.
A	229	23.4	229	23.4
B	406	41.5	635	64.9
C	87	8.9	722	73.7
D	206	21.0	928	94.8
E	51	5.2	979	100.0

XR075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
A	801	20.3	801	20.3
B	725	18.4	1526	38.8
C	1627	41.3	3153	80.1
D	471	12.0	3624	92.0
E	313	8.0	3937	100.0

XR076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	61	.	.	.
A	371	9.3	371	9.3
B	1294	32.6	1665	42.0
C	475	12.0	2140	53.9
D	1144	28.8	3284	82.7
E	685	17.3	3969	100.0

XR077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3042	.	.	.
A	152	15.4	152	15.4
B	491	49.7	643	65.1
C	52	5.3	695	70.3
D	272	27.5	967	97.9
E	21	2.1	988	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3047	.	.	.
A	332	33.8	332	33.8
B	265	27.0	597	60.7
C	79	8.0	676	68.8
D	263	26.8	939	95.5
E	44	4.5	983	100.0

XR079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
A	276	6.9	276	6.9
B	605	15.2	881	22.2
C	492	12.4	1373	34.5
D	2040	51.3	3413	85.9
E	562	14.1	3975	100.0

XR080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3017	.	.	.
A	194	19.2	194	19.2
B	93	9.2	287	28.3
C	626	61.8	913	90.1
D	59	5.8	972	96.0
E	41	4.0	1013	100.0

XR081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3117	.	.	.
A	591	64.7	591	64.7
B	41	4.5	632	69.2
C	60	6.6	692	75.8
D	51	5.6	743	81.4
E	170	18.6	913	100.0

XR082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3083	.	.	.
A	264	27.9	264	27.9
B	140	14.8	404	42.7
C	251	26.5	655	69.2
D	108	11.4	763	80.6
E	184	19.4	947	100.0

XR084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3114	.	.	.
A	191	20.9	191	20.9
B	159	17.4	350	38.2
C	326	35.6	676	73.8
D	109	11.9	785	85.7
E	131	14.3	916	100.0

XR085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3037	.	.	.
A	191	19.2	191	19.2
B	223	22.5	414	41.7
C	68	6.8	482	48.5
D	404	40.7	886	89.2
E	107	10.8	993	100.0

XR086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	104	.	.	.
A	1062	27.1	1062	27.1
B	1511	38.5	2573	65.5
C	738	18.8	3311	84.3
D	379	9.7	3690	94.0
E	236	6.0	3926	100.0

XR087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3037	.	.	.
A	147	14.8	147	14.8
B	212	21.3	359	36.2
C	104	10.5	463	46.6
D	109	11.0	572	57.6
E	421	42.4	993	100.0

XR088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3126	.	.	.
A	225	24.9	225	24.9
B	126	13.9	351	38.8
C	183	20.2	534	59.1
D	180	19.9	714	79.0
E	190	21.0	904	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3011	.	.	.
A	391	38.4	391	38.4
B	432	42.4	823	80.8
C	68	6.7	891	87.4
D	101	9.9	992	97.4
E	27	2.6	1019	100.0

XR090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3018	.	.	.
A	228	22.5	228	22.5
B	41	4.1	269	26.6
C	547	54.1	816	80.6
D	56	5.5	872	86.2
E	140	13.8	1012	100.0

XR091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3039	.	.	.
A	29	2.9	29	2.9
B	37	3.7	66	6.7
C	114	11.5	180	18.2
D	76	7.7	256	25.8
E	735	74.2	991	100.0

XR093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
A	142	14.9	142	14.9
B	155	16.3	297	31.2
C	168	17.7	465	48.9
D	106	11.1	571	60.0
E	380	40.0	951	100.0

XR096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3057	.	.	.
A	200	20.6	200	20.6
B	290	29.8	490	50.4
C	166	17.1	656	67.4
D	137	14.1	793	81.5
E	180	18.5	973	100.0

XR097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
A	351	36.9	351	36.9
B	356	37.4	707	74.3
C	160	16.8	867	91.2
D	44	4.6	911	95.8
E	40	4.2	951	100.0

XR098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	101	10.5	101	10.5
B	169	17.5	270	28.0
C	138	14.3	408	42.2
D	446	46.2	854	88.4
E	112	11.6	966	100.0

XR099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	452	47.2	452	47.2
B	167	17.5	619	64.7
C	79	8.3	698	72.9
D	30	3.1	728	76.1
E	229	23.9	957	100.0

XR100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	39	.	.	.
A	902	22.6	902	22.6
B	1117	28.0	2019	50.6
C	581	14.6	2600	65.1
D	934	23.4	3534	88.5
E	457	11.5	3991	100.0

XR101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3027	.	.	.
A	787	78.5	787	78.5
B	97	9.7	884	88.1
C	84	8.4	968	96.5
D	25	2.5	993	99.0
E	10	1.0	1003	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3008	.	.	.
A	27	2.6	27	2.6
B	115	11.3	142	13.9
C	329	32.2	471	46.1
D	501	49.0	972	95.1
E	50	4.9	1022	100.0

XR103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	69	.	.	.
A	257	6.5	257	6.5
B	693	17.5	950	24.0
C	1903	48.0	2853	72.0
D	360	9.1	3213	81.1
E	748	18.9	3961	100.0

XR104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3054	.	.	.
A	163	16.7	163	16.7
B	176	18.0	339	34.7
C	102	10.5	441	45.2
D	39	4.0	480	49.2
E	496	50.8	976	100.0

XR105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	218	22.8	218	22.8
B	131	13.7	349	36.4
C	179	18.7	528	55.1
D	284	29.6	812	84.8
E	146	15.2	958	100.0

XR106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	260	26.9	260	26.9
B	114	11.8	374	38.7
C	95	9.8	469	48.5
D	433	44.8	902	93.3
E	65	6.7	967	100.0

XR107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	170	17.6	170	17.6
B	351	36.3	521	53.9
C	158	16.4	679	70.3
D	92	9.5	771	79.8
E	195	20.2	966	100.0

XR108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3041	.	.	.
A	250	25.3	250	25.3
B	384	38.8	634	64.1
C	95	9.6	729	73.7
D	119	12.0	848	85.7
E	141	14.3	989	100.0

XR109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	52	.	.	.
A	238	6.0	238	6.0
B	2710	68.1	2948	74.1
C	335	8.4	3283	82.5
D	489	12.3	3772	94.8
E	206	5.2	3978	100.0

XR110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3056	.	.	.
A	69	7.1	69	7.1
B	172	17.7	241	24.7
C	342	35.1	583	59.9
D	206	21.1	789	81.0
E	185	19.0	974	100.0

XR111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
A	371	38.9	371	38.9
B	87	9.1	458	48.1
C	120	12.6	578	60.7
D	166	17.4	744	78.1
E	209	21.9	953	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	71	7.3	71	7.3
B	181	18.7	252	26.1
C	101	10.5	353	36.5
D	287	29.7	640	66.3
E	326	33.7	966	100.0

XR113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
A	64	6.4	64	6.4
B	171	17.2	235	23.6
C	492	49.3	727	72.9
D	30	3.0	757	75.9
E	240	24.1	997	100.0

XR115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3053	.	.	.
A	435	44.5	435	44.5
B	245	25.1	680	69.6
C	163	16.7	843	86.3
D	62	6.3	905	92.6
E	72	7.4	977	100.0

XR116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	220	22.8	220	22.8
B	177	18.3	397	41.1
C	221	22.9	618	64.0
D	182	18.8	800	82.8
E	166	17.2	966	100.0

XR117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	204	21.1	204	21.1
B	157	16.2	361	37.3
C	170	17.6	531	54.9
D	383	39.6	914	94.5
E	53	5.5	967	100.0

XR118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	363	37.6	363	37.6
B	101	10.5	464	48.1
C	334	34.6	798	82.7
D	75	7.8	873	90.5
E	92	9.5	965	100.0

XR120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3137	.	.	.
A	219	24.5	219	24.5
B	191	21.4	410	45.9
C	279	31.2	689	77.2
D	127	14.2	816	91.4
E	77	8.6	893	100.0

XR121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	33	.	.	.
A	2568	64.2	2568	64.2
B	68	1.7	2636	65.9
C	90	2.3	2726	68.2
D	1231	30.8	3957	99.0
E	40	1.0	3997	100.0

XR122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	47	.	.	.
A	237	6.0	237	6.0
B	200	5.0	437	11.0
C	310	7.8	747	18.8
D	598	15.0	1345	33.8
E	2638	66.2	3983	100.0

XR123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3054	.	.	.
A	338	34.6	338	34.6
B	146	15.0	484	49.6
C	82	8.4	566	58.0
D	30	3.1	596	61.1
E	380	38.9	976	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3053	.	.	.
A	264	27.0	264	27.0
B	90	9.2	354	36.2
C	141	14.4	495	50.7
D	149	15.3	644	65.9
E	333	34.1	977	100.0

XR126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3059	.	.	.
A	68	7.0	68	7.0
B	510	52.5	578	59.5
C	89	9.2	667	68.7
D	173	17.8	840	86.5
E	131	13.5	971	100.0

XR127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
A	602	15.1	602	15.1
B	793	19.9	1395	35.1
C	1117	28.1	2512	63.2
D	967	24.3	3479	87.5
E	496	12.5	3975	100.0

XR128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3104	.	.	.
A	69	7.5	69	7.5
B	216	23.3	285	30.8
C	390	42.1	675	72.9
D	153	16.5	828	89.4
E	98	10.6	926	100.0

XR129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3045	.	.	.
A	248	25.2	248	25.2
B	163	16.5	411	41.7
C	255	25.9	666	67.6
D	244	24.8	910	92.4
E	75	7.6	985	100.0

XR130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	83	8.9	83	8.9
B	327	35.2	410	44.2
C	231	24.9	641	69.1
D	79	8.5	720	77.6
E	208	22.4	928	100.0

XR131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	608	63.0	608	63.0
B	80	8.3	688	71.3
C	72	7.5	760	78.8
D	170	17.6	930	96.4
E	35	3.6	965	100.0

XR132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
A	332	33.3	332	33.3
B	53	5.3	385	38.6
C	42	4.2	427	42.8
D	19	1.9	446	44.7
E	551	55.3	997	100.0

XR133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3050	.	.	.
A	179	18.3	179	18.3
B	522	53.3	701	71.5
C	166	16.9	867	88.5
D	80	8.2	947	96.6
E	33	3.4	980	100.0

XR134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3050	.	.	.
A	137	14.0	137	14.0
B	151	15.4	288	29.4
C	491	50.1	779	79.5
D	113	11.5	892	91.0
E	88	9.0	980	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3048	.	.	.
A	243	24.7	243	24.7
B	240	24.4	483	49.2
C	132	13.4	615	62.6
D	161	16.4	776	79.0
E	206	21.0	982	100.0

XR136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
A	151	15.6	151	15.6
B	123	12.7	274	28.3
C	146	15.1	420	43.4
D	221	22.8	641	66.2
E	327	33.8	968	100.0

XR137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
A	284	28.5	284	28.5
B	47	4.7	331	33.2
C	58	5.8	389	39.0
D	506	50.8	895	89.8
E	102	10.2	997	100.0

XR138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3052	.	.	.
A	95	9.7	95	9.7
B	57	5.8	152	15.5
C	707	72.3	859	87.8
D	46	4.7	905	92.5
E	73	7.5	978	100.0

XR139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3049	.	.	.
A	245	25.0	245	25.0
B	215	21.9	460	46.9
C	126	12.8	586	59.7
D	314	32.0	900	91.7
E	81	8.3	981	100.0

XR140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	108	.	.	.
A	716	18.3	716	18.3
B	973	24.8	1689	43.1
C	1070	27.3	2759	70.3
D	622	15.9	3381	86.2
E	541	13.8	3922	100.0

XR141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
A	61	6.3	61	6.3
B	474	49.0	535	55.3
C	113	11.7	648	66.9
D	70	7.2	718	74.2
E	250	25.8	968	100.0

XR142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
A	110	11.6	110	11.6
B	274	28.8	384	40.4
C	240	25.2	624	65.6
D	139	14.6	763	80.2
E	188	19.8	951	100.0

XR143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3023	.	.	.
A	647	64.3	647	64.3
B	173	17.2	820	81.4
C	75	7.4	895	88.9
D	52	5.2	947	94.0
E	60	6.0	1007	100.0

XR144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	136	14.1	136	14.1
B	188	19.4	324	33.5
C	171	17.7	495	51.2
D	334	34.5	829	85.7
E	138	14.3	967	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3118	.	.	.
A	143	15.7	143	15.7
B	158	17.3	301	33.0
C	221	24.2	522	57.2
D	155	17.0	677	74.2
E	235	25.8	912	100.0

XR146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3050	.	.	.
A	73	7.4	73	7.4
B	76	7.8	149	15.2
C	190	19.4	339	34.6
D	480	49.0	819	83.6
E	161	16.4	980	100.0

XR148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3068	.	.	.
A	204	21.2	204	21.2
B	182	18.9	386	40.1
C	104	10.8	490	50.9
D	251	26.1	741	77.0
E	221	23.0	962	100.0

XR149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	97	.	.	.
A	252	6.4	252	6.4
B	552	14.0	804	20.4
C	2450	62.3	3254	82.7
D	254	6.5	3508	89.2
E	425	10.8	3933	100.0

XR151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
A	599	15.8	599	15.8
B	992	26.1	1591	41.9
C	842	22.2	2433	64.0
D	812	21.4	3245	85.4
E	554	14.6	3799	100.0

XR152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	77	8.0	77	8.0
B	53	5.5	130	13.6
C	558	58.3	688	71.9
D	58	6.1	746	78.0
E	211	22.0	957	100.0

XR155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3043	.	.	.
A	67	6.8	67	6.8
B	98	9.9	165	16.7
C	83	8.4	248	25.1
D	648	65.7	896	90.8
E	91	9.2	987	100.0

XR156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	125	.	.	.
A	1331	34.1	1331	34.1
B	418	10.7	1749	44.8
C	1279	32.8	3028	77.5
D	608	15.6	3636	93.1
E	269	6.9	3905	100.0

XR158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	93	10.0	93	10.0
B	523	56.4	616	66.4
C	63	6.8	679	73.2
D	200	21.6	879	94.7
E	49	5.3	928	100.0

XR159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
A	35	3.5	35	3.5
B	53	5.3	88	8.8
C	211	21.2	299	30.0
D	321	32.2	620	62.2
E	377	37.8	997	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
A	89	9.2	89	9.2
B	86	8.9	175	18.1
C	88	9.1	263	27.2
D	458	47.3	721	74.5
E	247	25.5	968	100.0

XR161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3034	.	.	.
A	370	37.1	370	37.1
B	226	22.7	596	59.8
C	159	16.0	755	75.8
D	151	15.2	906	91.0
E	90	9.0	996	100.0

XR162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3038	.	.	.
A	117	11.8	117	11.8
B	173	17.4	290	29.2
C	371	37.4	661	66.6
D	252	25.4	913	92.0
E	79	8.0	992	100.0

XR163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3056	.	.	.
A	201	20.6	201	20.6
B	260	26.7	461	47.3
C	295	30.3	756	77.6
D	40	4.1	796	81.7
E	178	18.3	974	100.0

XR164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	589	61.5	589	61.5
B	225	23.5	814	85.0
C	53	5.5	867	90.5
D	55	5.7	922	96.2
E	36	3.8	958	100.0

XR165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	70	.	.	.
A	1105	27.9	1105	27.9
B	524	13.2	1629	41.1
C	716	18.1	2345	59.2
D	1166	29.4	3511	88.7
E	449	11.3	3960	100.0

XR166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3053	.	.	.
A	75	7.7	75	7.7
B	68	7.0	143	14.6
C	83	8.5	226	23.1
D	701	71.8	927	94.9
E	50	5.1	977	100.0

XR167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	42	.	.	.
A	319	8.0	319	8.0
B	194	4.9	513	12.9
C	381	9.6	894	22.4
D	2642	66.2	3536	88.7
E	452	11.3	3988	100.0

XR168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	53	.	.	.
A	155	3.9	155	3.9
B	589	14.8	744	18.7
C	231	5.8	975	24.5
D	2854	71.8	3829	96.3
E	148	3.7	3977	100.0

XR169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	137	14.3	137	14.3
B	198	20.6	335	34.9
C	285	29.7	620	64.5
D	130	13.5	750	78.0
E	211	22.0	961	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3143	.	.	.
A	220	24.8	220	24.8
B	270	30.4	490	55.2
C	170	19.2	660	74.4
D	128	14.4	788	88.8
E	99	11.2	887	100.0

XR171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3095	.	.	.
A	165	17.6	165	17.6
B	212	22.7	377	40.3
C	259	27.7	636	68.0
D	155	16.6	791	84.6
E	144	15.4	935	100.0

XR172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3048	.	.	.
A	65	6.6	65	6.6
B	76	7.7	141	14.4
C	320	32.6	461	46.9
D	80	8.1	541	55.1
E	441	44.9	982	100.0

XR173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	323	33.7	323	33.7
B	199	20.8	522	54.4
C	184	19.2	706	73.6
D	112	11.7	818	85.3
E	141	14.7	959	100.0

XR174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	167	17.4	167	17.4
B	207	21.6	374	39.0
C	161	16.8	535	55.8
D	330	34.4	865	90.2
E	94	9.8	959	100.0

XR175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	185	.	.	.
A	537	14.0	537	14.0
B	678	17.6	1215	31.6
C	1060	27.6	2275	59.2
D	882	22.9	3157	82.1
E	688	17.9	3845	100.0

XR176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3068	.	.	.
A	302	31.4	302	31.4
B	139	14.4	441	45.8
C	147	15.3	588	61.1
D	170	17.7	758	78.8
E	204	21.2	962	100.0

XR177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	91	9.4	91	9.4
B	79	8.2	170	17.6
C	508	52.5	678	70.1
D	104	10.8	782	80.9
E	185	19.1	967	100.0

XR178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3012	.	.	.
A	157	15.4	157	15.4
B	131	12.9	288	28.3
C	485	47.6	773	75.9
D	79	7.8	852	83.7
E	166	16.3	1018	100.0

XR179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
A	1345	34.0	1345	34.0
B	695	17.6	2040	51.6
C	519	13.1	2559	64.7
D	550	13.9	3109	78.6
E	844	21.4	3953	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3088	.	.	.
A	262	27.8	262	27.8
B	395	41.9	657	69.7
C	169	17.9	826	87.7
D	66	7.0	892	94.7
E	50	5.3	942	100.0

XR181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	58	.	.	.
A	486	12.2	486	12.2
B	1843	46.4	2329	58.6
C	588	14.8	2917	73.4
D	314	7.9	3231	81.3
E	741	18.7	3972	100.0

XR182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3015	.	.	.
A	275	27.1	275	27.1
B	126	12.4	401	39.5
C	78	7.7	479	47.2
D	330	32.5	809	79.7
E	206	20.3	1015	100.0

XR183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	136	14.1	136	14.1
B	55	5.7	191	19.8
C	397	41.1	588	60.9
D	328	34.0	916	94.8
E	50	5.2	966	100.0

XR184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3029	.	.	.
A	368	36.8	368	36.8
B	124	12.4	492	49.2
C	311	31.1	803	80.2
D	102	10.2	905	90.4
E	96	9.6	1001	100.0

XR185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3043	.	.	.
A	119	12.1	119	12.1
B	170	17.2	289	29.3
C	261	26.4	550	55.7
D	228	23.1	778	78.8
E	209	21.2	987	100.0

XR186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3052	.	.	.
A	565	57.8	565	57.8
B	98	10.0	663	67.8
C	105	10.7	768	78.5
D	149	15.2	917	93.8
E	61	6.2	978	100.0

XR187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3042	.	.	.
A	127	12.9	127	12.9
B	354	35.8	481	48.7
C	58	5.9	539	54.6
D	63	6.4	602	60.9
E	386	39.1	988	100.0

XR188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3039	.	.	.
A	19	1.9	19	1.9
B	252	25.4	271	27.3
C	152	15.3	423	42.7
D	412	41.6	835	84.3
E	156	15.7	991	100.0

XR189	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	43	.	.	.
A	625	15.7	625	15.7
B	314	7.9	939	23.6
C	1188	29.8	2127	53.3
D	1600	40.1	3727	93.5
E	260	6.5	3987	100.0

THAILAND -- POPULATION A
RAW RESPONSES --PRETEST

XR190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
A	1861	47.0	1861	47.0
B	750	18.9	2611	66.0
C	626	15.8	3237	81.8
D	482	12.2	3719	94.0
E	239	6.0	3958	100.0

XR191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3032	.	.	.
A	235	23.5	235	23.5
B	56	5.6	291	29.2
C	657	65.8	948	95.0
D	8	0.8	956	95.8
E	42	4.2	998	100.0

XR192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3038	.	.	.
A	108	10.9	108	10.9
B	555	55.9	663	66.8
C	77	7.8	740	74.6
D	38	3.8	778	78.4
E	214	21.6	992	100.0

XR193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3025	.	.	.
A	141	14.0	141	14.0
B	223	22.2	364	36.2
C	517	51.4	881	87.7
D	100	10.0	981	97.6
E	24	2.4	1005	100.0

XR194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3057	.	.	.
A	269	27.6	269	27.6
B	234	24.0	503	51.7
C	215	22.1	718	73.8
D	178	18.3	896	92.1
E	77	7.9	973	100.0

XR195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3029	.	.	.
A	352	35.2	352	35.2
B	123	12.3	475	47.5
C	272	27.2	747	74.6
D	93	9.3	840	83.9
E	161	16.1	1001	100.0

XR196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	145	.	.	.
A	860	22.1	860	22.1
B	398	10.2	1258	32.4
C	2165	55.7	3423	88.1
D	220	5.7	3643	93.8
E	242	6.2	3885	100.0

XR197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3046	.	.	.
A	465	47.3	465	47.3
B	172	17.5	637	64.7
C	91	9.2	728	74.0
D	91	9.2	819	83.2
E	165	16.8	984	100.0

XR198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3092	.	.	.
A	147	15.7	147	15.7
B	294	31.3	441	47.0
C	239	25.5	680	72.5
D	97	10.3	777	82.8
E	161	17.2	938	100.0

XR199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3044	.	.	.
A	58	5.9	58	5.9
B	50	5.1	108	11.0
C	659	66.8	767	77.8
D	115	11.7	882	89.5
E	104	10.5	986	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3060	.	.	.
INCORRECT ANSWER	390	40.2	390	40.2
CORRECT ANSWER	580	59.8	970	100.0

XS002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3067	.	.	.
INCORRECT ANSWER	636	66.0	636	66.0
CORRECT ANSWER	327	34.0	963	100.0

XS003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	68	.	.	.
INCORRECT ANSWER	2842	71.7	2842	71.7
CORRECT ANSWER	1120	28.3	3962	100.0

XS004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3058	.	.	.
INCORRECT ANSWER	874	89.9	874	89.9
CORRECT ANSWER	98	10.1	972	100.0

XS005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	77	.	.	.
INCORRECT ANSWER	2379	60.2	2379	60.2
CORRECT ANSWER	1574	39.8	3953	100.0

XS006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3011	.	.	.
INCORRECT ANSWER	772	75.8	772	75.8
CORRECT ANSWER	247	24.2	1019	100.0

XS007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3118	.	.	.
INCORRECT ANSWER	626	68.6	626	68.6
CORRECT ANSWER	286	31.4	912	100.0

XS008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
INCORRECT ANSWER	1887	47.4	1887	47.4
CORRECT ANSWER	2095	52.6	3982	100.0

XS009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	145	.	.	.
INCORRECT ANSWER	2823	72.7	2823	72.7
CORRECT ANSWER	1062	27.3	3885	100.0

XS010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3016	.	.	.
INCORRECT ANSWER	743	73.3	743	73.3
CORRECT ANSWER	271	26.7	1014	100.0

XS011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3078	.	.	.
INCORRECT ANSWER	874	91.8	874	91.8
CORRECT ANSWER	78	8.2	952	100.0

XS012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	44	.	.	.
INCORRECT ANSWER	3633	91.1	3633	91.1
CORRECT ANSWER	353	8.9	3986	100.0

XS013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	54	.	.	.
INCORRECT ANSWER	3158	79.4	3158	79.4
CORRECT ANSWER	818	20.6	3976	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3090	.	.	.
INCORRECT ANSWER	634	67.4	634	67.4
CORRECT ANSWER	306	32.6	940	100.0

XS015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3079	.	.	.
INCORRECT ANSWER	805	84.6	805	84.6
CORRECT ANSWER	146	15.4	951	100.0

XS016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3079	.	.	.
INCORRECT ANSWER	742	78.0	742	78.0
CORRECT ANSWER	209	22.0	951	100.0

XS017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	134	.	.	.
INCORRECT ANSWER	2215	56.9	2215	56.9
CORRECT ANSWER	1681	43.1	3896	100.0

XS018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3047	.	.	.
INCORRECT ANSWER	575	58.5	575	58.5
CORRECT ANSWER	408	41.5	983	100.0

XS019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3065	.	.	.
INCORRECT ANSWER	732	75.9	732	75.9
CORRECT ANSWER	233	24.1	965	100.0

XS021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3055	.	.	.
INCORRECT ANSWER	492	50.5	492	50.5
CORRECT ANSWER	483	49.5	975	100.0

XS022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3043	.	.	.
INCORRECT ANSWER	501	50.8	501	50.8
CORRECT ANSWER	486	49.2	987	100.0

XS023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	82	.	.	.
INCORRECT ANSWER	2246	56.9	2246	56.9
CORRECT ANSWER	1702	43.1	3948	100.0

XS024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3079	.	.	.
INCORRECT ANSWER	445	46.8	445	46.8
CORRECT ANSWER	506	53.2	951	100.0

XS025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3033	.	.	.
INCORRECT ANSWER	840	84.3	840	84.3
CORRECT ANSWER	157	15.7	997	100.0

XS026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3060	.	.	.
INCORRECT ANSWER	445	45.9	445	45.9
CORRECT ANSWER	525	54.1	970	100.0

XS027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3061	.	.	.
INCORRECT ANSWER	768	79.3	768	79.3
CORRECT ANSWER	201	20.7	969	100.0

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XS028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	121	.	.	.
INCORRECT ANSWER	2120	54.2	2120	54.2
CORRECT ANSWER	1789	45.8	3909	100.0

XS029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3114	.	.	.
INCORRECT ANSWER	747	81.6	747	81.6
CORRECT ANSWER	169	18.4	916	100.0

XS030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3041	.	.	.
INCORRECT ANSWER	495	50.1	495	50.1
CORRECT ANSWER	494	49.9	989	100.0

XS031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	170	.	.	.
INCORRECT ANSWER	2741	71.0	2741	71.0
CORRECT ANSWER	1119	29.0	3860	100.0

XS032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3115	.	.	.
INCORRECT ANSWER	380	41.5	380	41.5
CORRECT ANSWER	535	58.5	915	100.0

XS033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3031	.	.	.
INCORRECT ANSWER	235	23.5	235	23.5
CORRECT ANSWER	764	76.5	999	100.0

XS034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3046	.	.	.
INCORRECT ANSWER	251	25.5	251	25.5
CORRECT ANSWER	733	74.5	984	100.0

XS035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3110	.	.	.
INCORRECT ANSWER	776	84.3	776	84.3
CORRECT ANSWER	144	15.7	920	100.0

XS036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3055	.	.	.
INCORRECT ANSWER	166	17.0	166	17.0
CORRECT ANSWER	809	83.0	975	100.0

XS037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3074	.	.	.
INCORRECT ANSWER	783	81.9	783	81.9
CORRECT ANSWER	173	18.1	956	100.0

XS038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	48	.	.	.
INCORRECT ANSWER	3075	77.2	3075	77.2
CORRECT ANSWER	907	22.8	3982	100.0

XS039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3044	.	.	.
INCORRECT ANSWER	816	82.8	816	82.8
CORRECT ANSWER	170	17.2	986	100.0

XS040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3104	.	.	.
INCORRECT ANSWER	751	81.1	751	81.1
CORRECT ANSWER	175	18.9	926	100.0

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XS041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3047	.	.	.
INCORRECT ANSWER	214	21.8	214	21.8
CORRECT ANSWER	769	78.2	983	100.0

XS042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3043	.	.	.
INCORRECT ANSWER	619	62.7	619	62.7
CORRECT ANSWER	368	37.3	987	100.0

XS043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	152	.	.	.
INCORRECT ANSWER	2982	76.9	2982	76.9
CORRECT ANSWER	896	23.1	3878	100.0

XS044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3071	.	.	.
INCORRECT ANSWER	550	57.4	550	57.4
CORRECT ANSWER	409	42.6	959	100.0

XS045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	156	.	.	.
INCORRECT ANSWER	3260	84.2	3260	84.2
CORRECT ANSWER	614	15.8	3874	100.0

XS046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	135	.	.	.
INCORRECT ANSWER	2460	63.2	2460	63.2
CORRECT ANSWER	1435	36.8	3895	100.0

XS047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3059	.	.	.
INCORRECT ANSWER	541	55.7	541	55.7
CORRECT ANSWER	430	44.3	971	100.0

XS048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3046	.	.	.
INCORRECT ANSWER	470	47.8	470	47.8
CORRECT ANSWER	514	52.2	984	100.0

XS049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3105	.	.	.
INCORRECT ANSWER	370	40.0	370	40.0
CORRECT ANSWER	555	60.0	925	100.0

XS052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3065	.	.	.
INCORRECT ANSWER	482	49.9	482	49.9
CORRECT ANSWER	483	50.1	965	100.0

XS053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3077	.	.	.
INCORRECT ANSWER	640	67.2	640	67.2
CORRECT ANSWER	313	32.8	953	100.0

XS054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3046	.	.	.
INCORRECT ANSWER	382	38.8	382	38.8
CORRECT ANSWER	602	61.2	984	100.0

XS055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3071	.	.	.
INCORRECT ANSWER	844	88.0	844	88.0
CORRECT ANSWER	115	12.0	959	100.0

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XS057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3065	.	.	.
INCORRECT ANSWER	546	56.6	546	56.6
CORRECT ANSWER	419	43.4	965	100.0

XS058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3034	.	.	.
INCORRECT ANSWER	702	70.5	702	70.5
CORRECT ANSWER	294	29.5	996	100.0

XS059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3021	.	.	.
INCORRECT ANSWER	664	65.8	664	65.8
CORRECT ANSWER	345	34.2	1009	100.0

XS062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3021	.	.	.
INCORRECT ANSWER	845	83.7	845	83.7
CORRECT ANSWER	164	16.3	1009	100.0

XS063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3115	.	.	.
INCORRECT ANSWER	650	71.0	650	71.0
CORRECT ANSWER	265	29.0	915	100.0

XS065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3057	.	.	.
INCORRECT ANSWER	354	36.4	354	36.4
CORRECT ANSWER	619	63.6	973	100.0

XS066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3030	.	.	.
INCORRECT ANSWER	500	50.0	500	50.0
CORRECT ANSWER	500	50.0	1000	100.0

XS067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3013	.	.	.
INCORRECT ANSWER	294	28.9	294	28.9
CORRECT ANSWER	723	71.1	1017	100.0

XS068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	48	.	.	.
INCORRECT ANSWER	516	13.0	516	13.0
CORRECT ANSWER	3466	87.0	3982	100.0

XS069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	56	.	.	.
INCORRECT ANSWER	701	17.6	701	17.6
CORRECT ANSWER	3273	82.4	3974	100.0

XS070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3037	.	.	.
INCORRECT ANSWER	992	99.9	992	99.9
CORRECT ANSWER	1	0.1	993	100.0

XS071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3028	.	.	.
INCORRECT ANSWER	792	79.0	792	79.0
CORRECT ANSWER	210	21.0	1002	100.0

XS072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3805	.	.	.
CORRECT ANSWER	225	100.0	225	100.0

XS073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3080	.	.	.
INCORRECT ANSWER	204	21.5	204	21.5
CORRECT ANSWER	746	78.5	950	100.0

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XS074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3051	.	.	.
INCORRECT ANSWER	750	76.6	750	76.6
CORRECT ANSWER	229	23.4	979	100.0

XS075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	93	.	.	.
INCORRECT ANSWER	2310	58.7	2310	58.7
CORRECT ANSWER	1627	41.3	3937	100.0

XS076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	61	.	.	.
INCORRECT ANSWER	3284	82.7	3284	82.7
CORRECT ANSWER	685	17.3	3969	100.0

XS077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3042	.	.	.
INCORRECT ANSWER	497	50.3	497	50.3
CORRECT ANSWER	491	49.7	988	100.0

XS078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3047	.	.	.
INCORRECT ANSWER	718	73.0	718	73.0
CORRECT ANSWER	265	27.0	983	100.0

XS079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
INCORRECT ANSWER	1935	48.7	1935	48.7
CORRECT ANSWER	2040	51.3	3975	100.0

XS080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3017	.	.	.
INCORRECT ANSWER	387	38.2	387	38.2
CORRECT ANSWER	626	61.8	1013	100.0

XS081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3117	.	.	.
INCORRECT ANSWER	862	94.4	862	94.4
CORRECT ANSWER	51	5.6	913	100.0

XS082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3083	.	.	.
INCORRECT ANSWER	683	72.1	683	72.1
CORRECT ANSWER	264	27.9	947	100.0

XS084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3114	.	.	.
INCORRECT ANSWER	757	82.6	757	82.6
CORRECT ANSWER	159	17.4	916	100.0

XS085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3037	.	.	.
INCORRECT ANSWER	589	59.3	589	59.3
CORRECT ANSWER	404	40.7	993	100.0

XS086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	104	.	.	.
INCORRECT ANSWER	2864	72.9	2864	72.9
CORRECT ANSWER	1062	27.1	3926	100.0

XS087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3037	.	.	.
INCORRECT ANSWER	889	89.5	889	89.5
CORRECT ANSWER	104	10.5	993	100.0

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XS088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3126	.	.	.
INCORRECT ANSWER	679	75.1	679	75.1
CORRECT ANSWER	225	24.9	904	100.0

XS089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3011	.	.	.
INCORRECT ANSWER	587	57.6	587	57.6
CORRECT ANSWER	432	42.4	1019	100.0

XS090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3018	.	.	.
INCORRECT ANSWER	465	45.9	465	45.9
CORRECT ANSWER	547	54.1	1012	100.0

XS091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3039	.	.	.
INCORRECT ANSWER	256	25.8	256	25.8
CORRECT ANSWER	735	74.2	991	100.0

XS093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
INCORRECT ANSWER	809	85.1	809	85.1
CORRECT ANSWER	142	14.9	951	100.0

XS096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3057	.	.	.
INCORRECT ANSWER	793	81.5	793	81.5
CORRECT ANSWER	180	18.5	973	100.0

XS097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3079	.	.	.
INCORRECT ANSWER	595	62.6	595	62.6
CORRECT ANSWER	356	37.4	951	100.0

XS098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
INCORRECT ANSWER	520	53.8	520	53.8
CORRECT ANSWER	446	46.2	966	100.0

XS099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
INCORRECT ANSWER	790	82.5	790	82.5
CORRECT ANSWER	167	17.5	957	100.0

XS100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	39	.	.	.
INCORRECT ANSWER	2874	72.0	2874	72.0
CORRECT ANSWER	1117	28.0	3991	100.0

XS101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3027	.	.	.
INCORRECT ANSWER	216	21.5	216	21.5
CORRECT ANSWER	787	78.5	1003	100.0

XS102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3008	.	.	.
INCORRECT ANSWER	521	51.0	521	51.0
CORRECT ANSWER	501	49.0	1022	100.0

XS103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	69	.	.	.
INCORRECT ANSWER	2058	52.0	2058	52.0
CORRECT ANSWER	1903	48.0	3961	100.0

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XS104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3054	.	.	.
INCORRECT ANSWER	480	49.2	480	49.2
CORRECT ANSWER	496	50.8	976	100.0

XS105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
INCORRECT ANSWER	812	84.8	812	84.8
CORRECT ANSWER	146	15.2	958	100.0

XS106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
INCORRECT ANSWER	534	55.2	534	55.2
CORRECT ANSWER	433	44.8	967	100.0

XS107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
INCORRECT ANSWER	615	63.7	615	63.7
CORRECT ANSWER	351	36.3	966	100.0

XS108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3041	.	.	.
INCORRECT ANSWER	848	85.7	848	85.7
CORRECT ANSWER	141	14.3	989	100.0

XS109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	52	.	.	.
INCORRECT ANSWER	1268	31.9	1268	31.9
CORRECT ANSWER	2710	68.1	3978	100.0

XS110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3056	.	.	.
INCORRECT ANSWER	632	64.9	632	64.9
CORRECT ANSWER	342	35.1	974	100.0

XS111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
INCORRECT ANSWER	582	61.1	582	61.1
CORRECT ANSWER	371	38.9	953	100.0

XS112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
INCORRECT ANSWER	679	70.3	679	70.3
CORRECT ANSWER	287	29.7	966	100.0

XS113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
INCORRECT ANSWER	826	82.8	826	82.8
CORRECT ANSWER	171	17.2	997	100.0

XS115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3053	.	.	.
INCORRECT ANSWER	905	92.6	905	92.6
CORRECT ANSWER	72	7.4	977	100.0

XS116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
INCORRECT ANSWER	745	77.1	745	77.1
CORRECT ANSWER	221	22.9	966	100.0

XS117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
INCORRECT ANSWER	584	60.4	584	60.4
CORRECT ANSWER	383	39.6	967	100.0

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XS118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
INCORRECT ANSWER	631	65.4	631	65.4
CORRECT ANSWER	334	34.6	965	100.0

XS120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3137	.	.	.
INCORRECT ANSWER	702	78.6	702	78.6
CORRECT ANSWER	191	21.4	893	100.0

XS121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	33	.	.	.
INCORRECT ANSWER	1429	35.8	1429	35.8
CORRECT ANSWER	2568	64.2	3997	100.0

XS122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	47	.	.	.
INCORRECT ANSWER	1345	33.8	1345	33.8
CORRECT ANSWER	2638	66.2	3983	100.0

XS123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3054	.	.	.
INCORRECT ANSWER	638	65.4	638	65.4
CORRECT ANSWER	338	34.6	976	100.0

XS125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3053	.	.	.
INCORRECT ANSWER	713	73.0	713	73.0
CORRECT ANSWER	264	27.0	977	100.0

XS126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3059	.	.	.
INCORRECT ANSWER	840	86.5	840	86.5
CORRECT ANSWER	131	13.5	971	100.0

XS127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	55	.	.	.
INCORRECT ANSWER	3008	75.7	3008	75.7
CORRECT ANSWER	967	24.3	3975	100.0

XS128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3104	.	.	.
INCORRECT ANSWER	536	57.9	536	57.9
CORRECT ANSWER	390	42.1	926	100.0

XS129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3045	.	.	.
INCORRECT ANSWER	741	75.2	741	75.2
CORRECT ANSWER	244	24.8	985	100.0

XS130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
INCORRECT ANSWER	601	64.8	601	64.8
CORRECT ANSWER	327	35.2	928	100.0

XS131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
INCORRECT ANSWER	795	82.4	795	82.4
CORRECT ANSWER	170	17.6	965	100.0

XS132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3033	.	.	.
INCORRECT ANSWER	446	44.7	446	44.7
CORRECT ANSWER	551	55.3	997	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3050			
INCORRECT ANSWER	458	46.7	458	46.7
CORRECT ANSWER	522	53.3	980	100.0

XS134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3050			
INCORRECT ANSWER	489	49.9	489	49.9
CORRECT ANSWER	491	50.1	980	100.0

XS135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3048			
INCORRECT ANSWER	776	79.0	776	79.0
CORRECT ANSWER	206	21.0	982	100.0

XS136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3062			
INCORRECT ANSWER	817	84.4	817	84.4
CORRECT ANSWER	151	15.6	968	100.0

XS137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3033			
INCORRECT ANSWER	491	49.2	491	49.2
CORRECT ANSWER	506	50.8	997	100.0

XS138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3052			
INCORRECT ANSWER	271	27.7	271	27.7
CORRECT ANSWER	707	72.3	978	100.0

XS139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3049			
INCORRECT ANSWER	736	75.0	736	75.0
CORRECT ANSWER	245	25.0	981	100.0

XS140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	108			
INCORRECT ANSWER	2949	75.2	2949	75.2
CORRECT ANSWER	973	24.8	3922	100.0

XS141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3062			
INCORRECT ANSWER	494	51.0	494	51.0
CORRECT ANSWER	474	49.0	968	100.0

XS142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3079			
INCORRECT ANSWER	763	80.2	763	80.2
CORRECT ANSWER	188	19.8	951	100.0

XS143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3023			
INCORRECT ANSWER	360	35.7	360	35.7
CORRECT ANSWER	647	64.3	1007	100.0

XS144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3063			
INCORRECT ANSWER	633	65.5	633	65.5
CORRECT ANSWER	334	34.5	967	100.0

XS145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3118			
INCORRECT ANSWER	677	74.2	677	74.2
CORRECT ANSWER	235	25.8	912	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3050			
INCORRECT ANSWER	500	51.0	500	51.0
CORRECT ANSWER	480	49.0	980	100.0

XS148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3068			
INCORRECT ANSWER	741	77.0	741	77.0
CORRECT ANSWER	221	23.0	962	100.0

XS149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	97			
INCORRECT ANSWER	1483	37.7	1483	37.7
CORRECT ANSWER	2450	62.3	3933	100.0

XS151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	231			
INCORRECT ANSWER	3200	84.2	3200	84.2
CORRECT ANSWER	599	15.8	3799	100.0

XS152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3073			
INCORRECT ANSWER	399	41.7	399	41.7
CORRECT ANSWER	558	58.3	957	100.0

XS155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3043			
INCORRECT ANSWER	339	34.3	339	34.3
CORRECT ANSWER	648	65.7	987	100.0

XS156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	125			
INCORRECT ANSWER	2626	67.2	2626	67.2
CORRECT ANSWER	1279	32.8	3905	100.0

XS158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3102			
INCORRECT ANSWER	405	43.6	405	43.6
CORRECT ANSWER	523	56.4	928	100.0

XS159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3033			
INCORRECT ANSWER	620	62.2	620	62.2
CORRECT ANSWER	377	37.8	997	100.0

XS160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3062			
INCORRECT ANSWER	510	52.7	510	52.7
CORRECT ANSWER	458	47.3	968	100.0

XS161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3034			
INCORRECT ANSWER	626	62.9	626	62.9
CORRECT ANSWER	370	37.1	996	100.0

XS162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3038			
INCORRECT ANSWER	621	62.6	621	62.6
CORRECT ANSWER	371	37.4	992	100.0

XS163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3056			
INCORRECT ANSWER	714	73.3	714	73.3
CORRECT ANSWER	260	26.7	974	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3072			
INCORRECT ANSWER	369	38.5	369	38.5
CORRECT ANSWER	589	61.5	958	100.0

XS165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	70			
INCORRECT ANSWER	2794	70.6	2794	70.6
CORRECT ANSWER	1166	29.4	3960	100.0

XS166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3053			
INCORRECT ANSWER	927	94.9	927	94.9
CORRECT ANSWER	50	5.1	977	100.0

XS167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	42			
INCORRECT ANSWER	1346	33.8	1346	33.8
CORRECT ANSWER	2642	66.2	3988	100.0

XS168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	53			
INCORRECT ANSWER	3822	96.1	3822	96.1
CORRECT ANSWER	155	3.9	3977	100.0

XS169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3069			
INCORRECT ANSWER	676	70.3	676	70.3
CORRECT ANSWER	285	29.7	961	100.0

XS170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3143			
INCORRECT ANSWER	617	69.6	617	69.6
CORRECT ANSWER	270	30.4	887	100.0

XS171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3095			
INCORRECT ANSWER	723	77.3	723	77.3
CORRECT ANSWER	212	22.7	935	100.0

XS172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	2291			
INCORRECT ANSWER	1419	81.6	1419	81.6
CORRECT ANSWER	320	18.4	1739	100.0

XS173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3071			
INCORRECT ANSWER	847	88.3	847	88.3
CORRECT ANSWER	112	11.7	959	100.0

XS174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3071			
INCORRECT ANSWER	629	65.6	629	65.6
CORRECT ANSWER	330	34.4	959	100.0

XS175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	185			
INCORRECT ANSWER	3157	82.1	3157	82.1
CORRECT ANSWER	688	17.9	3845	100.0

XS176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3068			
INCORRECT ANSWER	823	85.6	823	85.6
CORRECT ANSWER	139	14.4	962	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3063			
INCORRECT ANSWER	459	47.5	459	47.5
CORRECT ANSWER	508	52.5	967	100.0

XS178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3012			
INCORRECT ANSWER	852	83.7	852	83.7
CORRECT ANSWER	166	16.3	1018	100.0

XS179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	77			
INCORRECT ANSWER	3434	86.9	3434	86.9
CORRECT ANSWER	519	13.1	3953	100.0

XS180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3088			
INCORRECT ANSWER	773	82.1	773	82.1
CORRECT ANSWER	169	17.9	942	100.0

XS181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	58			
INCORRECT ANSWER	2129	53.6	2129	53.6
CORRECT ANSWER	1843	46.4	3972	100.0

XS182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3015			
INCORRECT ANSWER	685	67.5	685	67.5
CORRECT ANSWER	330	32.5	1015	100.0

XS183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3064			
INCORRECT ANSWER	638	66.0	638	66.0
CORRECT ANSWER	328	34.0	966	100.0

XS184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3029			
INCORRECT ANSWER	690	68.9	690	68.9
CORRECT ANSWER	311	31.1	1001	100.0

XS185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3043			
INCORRECT ANSWER	726	73.6	726	73.6
CORRECT ANSWER	261	26.4	987	100.0

XS186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3052			
INCORRECT ANSWER	413	42.2	413	42.2
CORRECT ANSWER	565	57.8	978	100.0

XS187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3042			
INCORRECT ANSWER	634	64.2	634	64.2
CORRECT ANSWER	354	35.8	988	100.0

XS188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3039			
INCORRECT ANSWER	579	58.4	579	58.4
CORRECT ANSWER	412	41.6	991	100.0

XS189	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	43			
INCORRECT ANSWER	2387	59.9	2387	59.9
CORRECT ANSWER	1600	40.1	3987	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- PRETEST

XS190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	72	.	.	.
INCORRECT ANSWER	2097	53.0	2097	53.0
CORRECT ANSWER	1861	47.0	3958	100.0

XS191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3032	.	.	.
INCORRECT ANSWER	942	94.4	942	94.4
CORRECT ANSWER	56	5.6	998	100.0

XS192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3038	.	.	.
INCORRECT ANSWER	437	44.1	437	44.1
CORRECT ANSWER	555	55.9	992	100.0

XS193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3025	.	.	.
INCORRECT ANSWER	488	48.6	488	48.6
CORRECT ANSWER	517	51.4	1005	100.0

XS194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3057	.	.	.
INCORRECT ANSWER	758	77.9	758	77.9
CORRECT ANSWER	215	22.1	973	100.0

XS195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3029	.	.	.
INCORRECT ANSWER	840	83.9	840	83.9
CORRECT ANSWER	161	16.1	1001	100.0

XS196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	145	.	.	.
INCORRECT ANSWER	1720	44.3	1720	44.3
CORRECT ANSWER	2165	55.7	3885	100.0

XS197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3046	.	.	.
INCORRECT ANSWER	519	52.7	519	52.7
CORRECT ANSWER	465	47.3	984	100.0

XS198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3092	.	.	.
INCORRECT ANSWER	699	74.5	699	74.5
CORRECT ANSWER	239	25.5	938	100.0

XS199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3044	.	.	.
INCORRECT ANSWER	327	33.2	327	33.2
CORRECT ANSWER	659	66.8	986	100.0

Achievement Item level - Post test

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	591	63.7	591	63.7
B	71	7.7	662	71.3
C	108	11.6	770	83.0
D	64	6.9	834	89.9
E	94	10.1	928	100.0

YR002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3078	.	.	.
A	252	26.5	252	26.5
B	352	37.0	604	63.4
C	128	13.4	732	76.9
D	57	6.0	789	82.9
E	163	17.1	952	100.0

YR003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	222	.	.	.
A	896	23.5	896	23.5
B	536	14.1	1432	37.6
C	373	9.8	1805	47.4
D	170	4.5	1975	51.9
E	1833	48.1	3808	100.0

YR004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
A	31	3.2	31	3.2
B	52	5.4	83	8.6
C	59	6.1	142	14.8
D	714	74.4	856	89.2
E	104	10.8	960	100.0

YR005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
A	651	17.1	651	17.1
B	321	8.4	972	25.6
C	1899	50.0	2871	75.6
D	387	10.2	3258	85.7
E	542	14.3	3800	100.0

YR006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
A	41	4.4	41	4.4
B	485	52.0	526	56.4
C	294	31.5	820	87.9
D	26	2.8	846	90.7
E	87	9.3	933	100.0

YR007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
A	361	37.8	361	37.8
B	207	21.7	568	59.5
C	205	21.5	773	81.0
D	100	10.5	873	91.5
E	81	8.5	954	100.0

YR008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	222	.	.	.
A	978	25.7	978	25.7
B	145	3.8	1123	29.5
C	116	3.0	1239	32.5
D	256	6.7	1495	39.3
E	2313	60.7	3808	100.0

YR009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	263	.	.	.
A	1122	29.8	1122	29.8
B	506	13.4	1628	43.2
C	878	23.3	2506	66.5
D	748	19.9	3254	86.4
E	513	13.6	3767	100.0

YR010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3094	.	.	.
A	29	3.1	29	3.1
B	215	23.0	244	26.1
C	61	6.5	305	32.6
D	343	36.6	648	69.2
E	288	30.8	936	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3120	.	.	.
A	64	7.0	64	7.0
B	118	13.0	182	20.0
C	126	13.8	308	33.8
D	77	8.5	385	42.3
E	525	57.7	910	100.0

YR012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	216	.	.	.
A	927	24.3	927	24.3
B	172	4.5	1099	28.8
C	112	2.9	1211	31.8
D	200	5.2	1411	37.0
E	2403	63.0	3814	100.0

YR013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	224	.	.	.
A	340	8.9	340	8.9
B	917	24.1	1257	33.0
C	232	6.1	1489	39.1
D	1449	38.1	2938	77.2
E	868	22.8	3806	100.0

YR014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3103	.	.	.
A	85	9.2	85	9.2
B	102	11.0	187	20.2
C	341	36.8	528	57.0
D	157	16.9	685	73.9
E	242	26.1	927	100.0

YR015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3118	.	.	.
A	185	20.3	185	20.3
B	177	19.4	362	39.7
C	307	33.7	669	73.4
D	174	19.1	843	92.4
E	69	7.6	912	100.0

YR016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
A	122	12.8	122	12.8
B	259	27.1	381	39.9
C	92	9.6	473	49.5
D	283	29.6	756	79.2
E	199	20.8	955	100.0

YR017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
A	336	8.8	336	8.8
B	358	9.4	694	18.3
C	2265	59.6	2959	77.9
D	289	7.6	3248	85.5
E	552	14.5	3800	100.0

YR018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3103	.	.	.
A	388	41.9	388	41.9
B	169	18.2	557	60.1
C	128	13.8	685	73.9
D	102	11.0	787	84.9
E	140	15.1	927	100.0

YR019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	267	.	.	.
A	1006	26.7	1006	26.7
B	854	22.7	1860	49.4
C	1092	29.0	2952	78.4
D	557	14.8	3509	93.3
E	254	6.7	3763	100.0

YR021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	49	5.1	49	5.1
B	203	21.1	252	26.2
C	106	11.0	358	37.3
D	85	8.8	443	46.1
E	518	53.9	961	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
A	521	55.9	521	55.9
B	85	9.1	606	65.0
C	230	24.7	836	89.7
D	49	5.3	885	95.0
E	47	5.0	932	100.0

YR023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	225	.	.	.
A	298	7.8	298	7.8
B	419	11.0	717	18.8
C	984	25.9	1701	44.7
D	1625	42.7	3326	87.4
E	479	12.6	3805	100.0

YR024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
A	19	2.0	19	2.0
B	77	8.1	96	10.1
C	96	10.1	192	20.1
D	586	61.4	778	81.5
E	177	18.5	955	100.0

YR025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
A	609	65.3	609	65.3
B	223	23.9	832	89.3
C	36	3.9	868	93.1
D	46	4.9	914	98.1
E	18	1.9	932	100.0

YR026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3068	.	.	.
A	84	8.7	84	8.7
B	558	58.0	642	66.7
C	158	16.4	800	83.2
D	91	9.5	891	92.6
E	71	7.4	962	100.0

YR027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3085	.	.	.
A	94	9.9	94	9.9
B	203	21.5	297	31.4
C	185	19.6	482	51.0
D	203	21.5	685	72.5
E	260	27.5	945	100.0

YR028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	246	.	.	.
A	1380	36.5	1380	36.5
B	277	7.3	1657	43.8
C	370	9.8	2027	53.6
D	1619	42.8	3646	96.4
E	138	3.6	3784	100.0

YR029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3128	.	.	.
A	164	18.2	164	18.2
B	187	20.7	351	38.9
C	236	26.2	587	65.1
D	152	16.9	739	81.9
E	163	18.1	902	100.0

YR030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	178	19.2	178	19.2
B	54	5.8	232	25.0
C	451	48.6	683	73.6
D	131	14.1	814	87.7
E	114	12.3	928	100.0

YR031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	241	.	.	.
A	593	15.7	593	15.7
B	621	16.4	1214	32.0
C	606	16.0	1820	48.0
D	1496	39.5	3316	87.5
E	473	12.5	3789	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3082	.	.	.
A	62	6.5	62	6.5
B	76	8.0	138	14.6
C	89	9.4	227	23.9
D	155	16.4	382	40.3
E	566	59.7	948	100.0

YR033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
A	725	77.7	725	77.7
B	43	4.6	768	82.3
C	67	7.2	835	89.5
D	19	2.0	854	91.5
E	79	8.5	933	100.0

YR034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	23	2.4	23	2.4
B	111	11.5	134	13.9
C	764	79.2	898	93.1
D	44	4.6	942	97.6
E	23	2.4	965	100.0

YR035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3084	.	.	.
A	181	19.1	181	19.1
B	220	23.3	401	42.4
C	133	14.1	534	56.4
D	235	24.8	769	81.3
E	177	18.7	946	100.0

YR036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	43	4.5	43	4.5
B	835	86.9	878	91.4
C	65	6.8	943	98.1
D	7	0.7	950	98.9
E	11	1.1	961	100.0

YR037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3113	.	.	.
A	165	18.0	165	18.0
B	164	17.9	329	35.9
C	152	16.6	481	52.5
D	261	28.5	742	80.9
E	175	19.1	917	100.0

YR038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	218	.	.	.
A	127	3.3	127	3.3
B	1220	32.0	1347	35.3
C	408	10.7	1755	46.0
D	826	21.7	2581	67.7
E	1231	32.3	3812	100.0

YR039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3061	.	.	.
A	61	6.3	61	6.3
B	38	3.9	99	10.2
C	49	5.1	148	15.3
D	15	1.5	163	16.8
E	806	83.2	969	100.0

YR040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	151	15.8	151	15.8
B	300	31.3	451	47.1
C	251	26.2	702	73.3
D	164	17.1	866	90.4
E	92	9.6	958	100.0

YR041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	772	80.0	772	80.0
B	80	8.3	852	88.3
C	46	4.8	898	93.1
D	52	5.4	950	98.4
E	15	1.6	965	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	27	2.9	27	2.9
B	34	3.7	61	6.6
C	439	47.2	500	53.8
D	383	41.2	883	94.9
E	47	5.1	930	100.0

YR043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	251	.	.	.
A	223	5.9	223	5.9
B	928	24.6	1151	30.5
C	841	22.3	1992	52.7
D	503	13.3	2495	66.0
E	1284	34.0	3779	100.0

YR044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3108	.	.	.
A	163	17.7	163	17.7
B	375	40.7	538	58.4
C	205	22.2	743	80.6
D	128	13.9	871	94.5
E	51	5.5	922	100.0

YR045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	259	.	.	.
A	500	13.3	500	13.3
B	394	10.4	894	23.7
C	850	22.5	1744	46.2
D	468	12.4	2212	58.7
E	1559	41.3	3771	100.0

YR046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	245	.	.	.
A	579	15.3	579	15.3
B	725	19.2	1304	34.5
C	616	16.3	1920	50.7
D	1582	41.8	3502	92.5
E	283	7.5	3785	100.0

YR047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	164	17.1	164	17.1
B	169	17.7	333	34.8
C	535	55.9	868	90.7
D	42	4.4	910	95.1
E	47	4.9	957	100.0

YR048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3103	.	.	.
A	184	19.8	184	19.8
B	466	50.3	650	70.1
C	247	26.6	897	96.8
D	17	1.8	914	98.6
E	13	1.4	927	100.0

YR049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	55	5.7	55	5.7
B	84	8.8	139	14.5
C	161	16.8	300	31.3
D	584	60.9	884	92.2
E	75	7.8	959	100.0

YR052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	525	54.7	525	54.7
B	81	8.4	606	63.2
C	93	9.7	699	72.9
D	95	9.9	794	82.8
E	165	17.2	959	100.0

YR053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
A	177	19.2	177	19.2
B	375	40.6	552	59.7
C	207	22.4	759	82.1
D	86	9.3	845	91.5
E	79	8.5	924	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
A	661	68.3	661	68.3
B	47	4.9	708	73.1
C	64	6.6	772	79.8
D	50	5.2	822	84.9
E	146	15.1	968	100.0

YR055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3111	.	.	.
A	227	24.7	227	24.7
B	189	20.6	416	45.3
C	185	20.1	601	65.4
D	176	19.2	777	84.5
E	142	15.5	919	100.0

YR057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3107	.	.	.
A	86	9.3	86	9.3
B	100	10.8	186	20.2
C	72	7.8	258	28.0
D	486	52.7	744	80.6
E	179	19.4	923	100.0

YR058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	217	23.4	217	23.4
B	355	38.3	572	61.6
C	98	10.6	670	72.2
D	119	12.8	789	85.0
E	139	15.0	928	100.0

YR059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	100	10.8	100	10.8
B	112	12.0	212	22.8
C	215	23.1	427	45.9
D	368	39.6	795	85.5
E	135	14.5	930	100.0

YR062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	89	9.6	89	9.6
B	189	20.3	278	29.9
C	268	28.8	546	58.7
D	54	5.8	600	64.5
E	330	35.5	930	100.0

YR063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3091	.	.	.
A	282	30.0	282	30.0
B	161	17.1	443	47.2
C	209	22.3	652	69.4
D	151	16.1	803	85.5
E	136	14.5	939	100.0

YR065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	21	2.2	21	2.2
B	183	19.1	204	21.3
C	70	7.3	274	28.6
D	55	5.7	329	34.4
E	628	65.6	957	100.0

YR066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3095	.	.	.
A	37	4.0	37	4.0
B	526	56.3	563	60.2
C	45	4.8	608	65.0
D	251	26.8	859	91.9
E	76	8.1	935	100.0

YR067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3095	.	.	.
A	21	2.2	21	2.2
B	49	5.2	70	7.5
C	675	72.2	745	79.7
D	99	10.6	844	90.3
E	91	9.7	935	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
A	73	1.9	73	1.9
B	78	2.1	151	4.0
C	105	2.8	256	6.7
D	172	4.5	428	11.3
E	3374	88.7	3802	100.0

YR069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	220	.	.	.
A	215	5.6	215	5.6
B	3283	86.2	3498	91.8
C	191	5.0	3689	96.8
D	83	2.2	3772	99.0
E	38	1.0	3810	100.0

YR070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	99	10.6	99	10.6
B	83	8.9	182	19.6
C	209	22.5	391	42.0
D	248	26.7	639	68.7
E	291	31.3	930	100.0

YR071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3101	.	.	.
A	213	22.9	213	22.9
B	127	13.7	340	36.6
C	300	32.3	640	68.9
D	45	4.8	685	73.7
E	244	26.3	929	100.0

YR072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	147	15.8	147	15.8
B	178	19.2	325	35.0
C	139	15.0	464	50.0
D	374	40.3	838	90.3
E	90	9.7	928	100.0

YR073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	23	2.4	23	2.4
B	31	3.2	54	5.6
C	46	4.8	100	10.4
D	85	8.9	185	19.3
E	773	80.7	958	100.0

YR074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
A	279	30.2	279	30.2
B	338	36.6	617	66.8
C	55	6.0	672	72.7
D	193	20.9	865	93.6
E	59	6.4	924	100.0

YR075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	235	.	.	.
A	608	16.0	608	16.0
B	607	16.0	1215	32.0
C	1956	51.5	3171	83.6
D	367	9.7	3538	93.2
E	257	6.8	3795	100.0

YR076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	227	.	.	.
A	296	7.8	296	7.8
B	1310	34.4	1606	42.2
C	449	11.8	2055	54.0
D	1030	27.1	3085	81.1
E	718	18.9	3803	100.0

YR077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
A	119	12.8	119	12.8
B	543	58.3	662	71.1
C	26	2.8	688	73.9
D	223	24.0	911	97.9
E	20	2.1	931	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
A	243	25.3	243	25.3
B	356	37.1	599	62.4
C	90	9.4	689	71.8
D	229	23.9	918	95.6
E	42	4.4	960	100.0

YR079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	215	.	.	.
A	183	4.8	183	4.8
B	420	11.0	603	15.8
C	360	9.4	963	25.2
D	2456	64.4	3419	89.6
E	396	10.4	3815	100.0

YR080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
A	159	17.0	159	17.0
B	100	10.7	259	27.7
C	566	60.6	825	88.3
D	52	5.6	877	93.9
E	57	6.1	934	100.0

YR081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3082	.	.	.
A	489	51.6	489	51.6
B	51	5.4	540	57.0
C	66	7.0	606	63.9
D	79	8.3	685	72.3
E	263	27.7	948	100.0

YR082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
A	386	39.9	386	39.9
B	210	21.7	596	61.6
C	100	10.3	696	71.9
D	106	11.0	802	82.9
E	166	17.1	968	100.0

YR084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
A	137	15.0	137	15.0
B	177	19.3	314	34.3
C	359	39.2	673	73.6
D	122	13.3	795	86.9
E	120	13.1	915	100.0

YR085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
A	122	13.1	122	13.1
B	172	18.4	294	31.5
C	39	4.2	333	35.7
D	471	50.5	804	86.2
E	129	13.8	933	100.0

YR086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	232	.	.	.
A	1406	37.0	1406	37.0
B	1563	41.2	2969	78.2
C	467	12.3	3436	90.5
D	225	5.9	3661	96.4
E	137	3.6	3798	100.0

YR087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3108	.	.	.
A	153	16.6	153	16.6
B	177	19.2	330	35.8
C	109	11.8	439	47.6
D	126	13.7	565	61.3
E	357	38.7	922	100.0

YR088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
A	411	43.1	411	43.1
B	150	15.7	561	58.8
C	133	13.9	694	72.7
D	116	12.2	810	84.9
E	144	15.1	954	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3093	.	.	.
A	304	32.4	304	32.4
B	488	52.1	792	84.5
C	46	4.9	838	89.4
D	74	7.9	912	97.3
E	25	2.7	937	100.0

YR090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	219	23.5	219	23.5
B	39	4.2	258	27.7
C	532	57.2	790	84.9
D	34	3.7	824	88.6
E	106	11.4	930	100.0

YR091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
A	28	2.9	28	2.9
B	30	3.1	58	6.0
C	81	8.4	139	14.4
D	60	6.2	199	20.6
E	769	79.4	968	100.0

YR093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3112	.	.	.
A	178	19.4	178	19.4
B	139	15.1	317	34.5
C	177	19.3	494	53.8
D	106	11.5	600	65.4
E	318	34.6	918	100.0

YR096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
A	234	25.6	234	25.6
B	263	28.7	497	54.3
C	124	13.6	621	67.9
D	108	11.8	729	79.7
E	186	20.3	915	100.0

YR097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
A	296	32.3	296	32.3
B	394	43.1	690	75.4
C	157	17.2	847	92.6
D	39	4.3	886	96.8
E	29	3.2	915	100.0

YR098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
A	85	8.9	85	8.9
B	128	13.4	213	22.3
C	126	13.2	339	35.5
D	517	54.1	856	89.6
E	99	10.4	955	100.0

YR099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	408	42.6	408	42.6
B	189	19.7	597	62.4
C	122	12.7	719	75.1
D	39	4.1	758	79.2
E	199	20.8	957	100.0

YR100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
A	1114	29.3	1114	29.3
B	1197	31.5	2311	60.8
C	533	14.0	2844	74.9
D	561	14.8	3405	89.6
E	394	10.4	3799	100.0

YR101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
A	744	79.7	744	79.7
B	98	10.5	842	90.1
C	64	6.9	906	97.0
D	17	1.8	923	98.8
E	11	1.2	934	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3092	.	.	.
A	27	2.9	27	2.9
B	101	10.8	128	13.6
C	297	31.7	425	45.3
D	469	50.0	894	95.3
E	44	4.7	938	100.0

YR103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
A	180	4.7	180	4.7
B	524	13.8	704	18.5
C	2295	60.4	2999	78.9
D	264	6.9	3263	85.9
E	537	14.1	3800	100.0

YR104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3074	.	.	.
A	75	7.8	75	7.8
B	109	11.4	184	19.2
C	92	9.6	276	28.9
D	29	3.0	305	31.9
E	651	68.1	956	100.0

YR105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	212	22.2	212	22.2
B	126	13.2	338	35.3
C	153	16.0	491	51.3
D	261	27.3	752	78.6
E	205	21.4	957	100.0

YR106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	223	24.0	223	24.0
B	116	12.5	339	36.5
C	82	8.8	421	45.4
D	452	48.7	873	94.1
E	55	5.9	928	100.0

YR107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	117	12.2	117	12.2
B	530	55.3	647	67.5
C	144	15.0	791	82.6
D	50	5.2	841	87.8
E	117	12.2	958	100.0

YR108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
A	212	22.7	212	22.7
B	260	27.9	472	50.6
C	111	11.9	583	62.5
D	121	13.0	704	75.5
E	229	24.5	933	100.0

YR109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
A	181	4.7	181	4.7
B	2776	72.8	2957	77.6
C	297	7.8	3254	85.4
D	399	10.5	3653	95.9
E	158	4.1	3811	100.0

YR110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3066	.	.	.
A	70	7.3	70	7.3
B	116	12.0	186	19.3
C	423	43.9	609	63.2
D	138	14.3	747	77.5
E	217	22.5	964	100.0

YR111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	443	46.1	443	46.1
B	66	6.9	509	53.0
C	116	12.1	625	65.0
D	141	14.7	766	79.7
E	195	20.3	961	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	73	7.6	73	7.6
B	161	16.8	234	24.4
C	78	8.1	312	32.6
D	401	41.9	713	74.4
E	245	25.6	958	100.0

YR113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3094	.	.	.
A	216	23.1	216	23.1
B	298	31.8	514	54.9
C	197	21.0	711	76.0
D	13	1.4	724	77.4
E	212	22.6	936	100.0

YR115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
A	327	35.1	327	35.1
B	125	13.4	452	48.5
C	86	9.2	538	57.8
D	83	8.9	621	66.7
E	310	33.3	931	100.0

YR116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	197	20.5	197	20.5
B	183	19.1	380	39.6
C	310	32.3	690	71.9
D	104	10.8	794	82.8
E	165	17.2	959	100.0

YR117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	187	19.5	187	19.5
B	128	13.3	315	32.8
C	133	13.8	448	46.6
D	476	49.5	924	96.1
E	37	3.9	961	100.0

YR118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3068	.	.	.
A	261	27.1	261	27.1
B	113	11.7	374	38.9
C	439	45.6	813	84.5
D	61	6.3	874	90.9
E	88	9.1	962	100.0

YR120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3131	.	.	.
A	182	20.2	182	20.2
B	217	24.1	399	44.4
C	288	32.0	687	76.4
D	133	14.8	820	91.2
E	79	8.8	899	100.0

YR121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
A	2509	65.8	2509	65.8
B	75	2.0	2584	67.8
C	98	2.6	2682	70.4
D	1099	28.8	3781	99.2
E	30	0.8	3811	100.0

YR122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
A	163	4.3	163	4.3
B	170	4.5	333	8.7
C	250	6.6	583	15.3
D	452	11.9	1035	27.2
E	2776	72.8	3811	100.0

YR123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	333	34.5	333	34.5
B	129	13.4	462	47.8
C	85	8.8	547	56.6
D	41	4.2	588	60.9
E	378	39.1	966	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	446	46.4	446	46.4
B	89	9.3	535	55.7
C	122	12.7	657	68.4
D	83	8.6	740	77.0
E	221	23.0	961	100.0

YR126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
A	62	6.5	62	6.5
B	519	54.4	581	60.9
C	91	9.5	672	70.4
D	146	15.3	818	85.7
E	136	14.3	954	100.0

YR127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	214	.	.	.
A	567	14.9	567	14.9
B	673	17.6	1240	32.5
C	834	21.9	2074	54.4
D	1378	36.1	3452	90.5
E	364	9.5	3816	100.0

YR128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
A	70	7.3	70	7.3
B	235	24.6	305	32.0
C	414	43.4	719	75.4
D	159	16.7	878	92.0
E	76	8.0	954	100.0

YR129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
A	252	27.3	252	27.3
B	157	17.0	409	44.3
C	222	24.0	631	68.3
D	244	26.4	875	94.7
E	49	5.3	924	100.0

YR130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
A	72	7.6	72	7.6
B	401	42.1	473	49.6
C	228	23.9	701	73.6
D	95	10.0	796	83.5
E	157	16.5	953	100.0

YR131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3110	.	.	.
A	502	54.6	502	54.6
B	95	10.3	597	64.9
C	66	7.2	663	72.1
D	231	25.1	894	97.2
E	26	2.8	920	100.0

YR132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3104	.	.	.
A	331	35.7	331	35.7
B	45	4.9	376	40.6
C	59	6.4	435	47.0
D	24	2.6	459	49.6
E	467	50.4	926	100.0

YR133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	141	14.7	141	14.7
B	564	58.7	705	73.4
C	129	13.4	834	86.8
D	94	9.8	928	96.6
E	33	3.4	961	100.0

YR134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	85	8.8	85	8.8
B	130	13.4	215	22.2
C	539	55.7	754	78.0
D	153	15.8	907	93.8
E	60	6.2	967	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
A	180	19.3	180	19.3
B	183	19.6	363	38.9
C	103	11.1	466	50.0
D	124	13.3	590	63.3
E	342	36.7	932	100.0

YR136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	226	23.6	226	23.6
B	97	10.1	323	33.8
C	88	9.2	411	42.9
D	249	26.0	660	69.0
E	297	31.0	957	100.0

YR137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3113	.	.	.
A	267	29.1	267	29.1
B	84	9.2	351	38.3
C	69	7.5	420	45.8
D	397	43.3	817	89.1
E	100	10.9	917	100.0

YR138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	66	6.9	66	6.9
B	50	5.2	116	12.1
C	722	75.1	838	87.2
D	45	4.7	883	91.9
E	78	8.1	961	100.0

YR139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3108	.	.	.
A	323	35.0	323	35.0
B	139	15.1	462	50.1
C	126	13.7	588	63.8
D	277	30.0	865	93.8
E	57	6.2	922	100.0

YR140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	238	.	.	.
A	596	15.7	596	15.7
B	1358	35.8	1954	51.5
C	852	22.5	2806	74.0
D	521	13.7	3327	87.7
E	465	12.3	3792	100.0

YR141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3074	.	.	.
A	69	7.2	69	7.2
B	526	55.0	595	62.2
C	124	13.0	719	75.2
D	47	4.9	766	80.1
E	190	19.9	956	100.0

YR142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3120	.	.	.
A	73	8.0	73	8.0
B	251	27.6	324	35.6
C	220	24.2	544	59.8
D	118	13.0	662	72.7
E	248	27.3	910	100.0

YR143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3101	.	.	.
A	636	68.5	636	68.5
B	127	13.7	763	82.1
C	64	6.9	827	89.0
D	59	6.4	886	95.4
E	43	4.6	929	100.0

YR144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
A	109	11.4	109	11.4
B	166	17.4	275	28.8
C	140	14.7	415	43.5
D	371	38.8	786	82.3
E	169	17.7	955	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3124	.	.	.
A	108	11.9	108	11.9
B	161	17.8	269	29.7
C	212	23.4	481	53.1
D	165	18.2	646	71.3
E	260	28.7	906	100.0

YR146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	59	6.1	59	6.1
B	73	7.6	132	13.7
C	184	19.1	316	32.7
D	500	51.8	816	84.6
E	149	15.4	965	100.0

YR148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
A	176	18.4	176	18.4
B	154	16.1	330	34.6
C	80	8.4	410	43.0
D	175	18.3	585	61.3
E	369	38.7	954	100.0

YR149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
A	178	4.7	178	4.7
B	525	13.8	703	18.5
C	2584	68.0	3287	86.5
D	237	6.2	3524	92.7
E	278	7.3	3802	100.0

YR151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	283	.	.	.
A	623	16.6	623	16.6
B	1086	29.0	1709	45.6
C	860	23.0	2569	68.6
D	693	18.5	3262	87.1
E	485	12.9	3747	100.0

YR152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
A	61	6.4	61	6.4
B	47	4.9	108	11.3
C	654	68.3	762	79.5
D	61	6.4	823	85.9
E	135	14.1	958	100.0

YR155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	99	10.2	99	10.2
B	97	10.0	196	20.3
C	61	6.3	257	26.6
D	635	65.7	892	92.2
E	75	7.8	967	100.0

YR156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	233	.	.	.
A	960	25.3	960	25.3
B	353	9.3	1313	34.6
C	1657	43.6	2970	78.2
D	581	15.3	3551	93.5
E	246	6.5	3797	100.0

YR158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
A	100	10.5	100	10.5
B	583	61.0	683	71.5
C	59	6.2	742	77.7
D	166	17.4	908	95.1
E	47	4.9	955	100.0

YR159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	21	2.3	21	2.3
B	24	2.6	45	4.8
C	185	19.9	230	24.7
D	305	32.8	535	57.5
E	395	42.5	930	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
A	82	8.5	82	8.5
B	85	8.9	167	17.4
C	81	8.4	248	25.8
D	484	50.4	732	76.2
E	228	23.8	960	100.0

YR161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
A	326	35.3	326	35.3
B	218	23.6	544	58.9
C	138	14.9	682	73.8
D	157	17.0	839	90.8
E	85	9.2	924	100.0

YR162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
A	80	8.3	80	8.3
B	204	21.1	284	29.4
C	399	41.3	683	70.7
D	198	20.5	881	91.2
E	85	8.8	966	100.0

YR163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
A	219	22.8	219	22.8
B	238	24.8	457	47.7
C	315	32.8	772	80.5
D	36	3.8	808	84.3
E	151	15.7	959	100.0

YR164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
A	659	68.6	659	68.6
B	167	17.4	826	86.0
C	50	5.2	876	91.2
D	51	5.3	927	96.6
E	33	3.4	960	100.0

YR165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	225	.	.	.
A	726	19.1	726	19.1
B	374	9.8	1100	28.9
C	635	16.7	1735	45.6
D	1606	42.2	3341	87.8
E	464	12.2	3805	100.0

YR166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
A	46	4.8	46	4.8
B	38	4.0	84	8.8
C	76	7.9	160	16.7
D	640	66.9	800	83.6
E	157	16.4	957	100.0

YR167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
A	215	5.6	215	5.6
B	188	4.9	403	10.6
C	343	9.0	746	19.6
D	2713	71.2	3459	90.8
E	352	9.2	3811	100.0

YR168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	218	.	.	.
A	198	5.2	198	5.2
B	598	15.7	796	20.9
C	198	5.2	994	26.1
D	2695	70.7	3689	96.8
E	123	3.2	3812	100.0

YR169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
A	107	11.2	107	11.2
B	213	22.4	320	33.6
C	302	31.7	622	65.3
D	144	15.1	766	80.4
E	187	19.6	953	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3128	.	.	.
A	173	19.2	173	19.2
B	238	26.4	411	45.6
C	229	25.4	640	71.0
D	161	17.8	801	88.8
E	101	11.2	902	100.0

YR171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3139	.	.	.
A	141	15.8	141	15.8
B	209	23.5	350	39.3
C	269	30.2	619	69.5
D	141	15.8	760	85.3
E	131	14.7	891	100.0

YR172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3109	.	.	.
A	56	6.1	56	6.1
B	89	9.7	145	15.7
C	263	28.6	408	44.3
D	87	9.4	495	53.7
E	426	46.3	921	100.0

YR173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3128	.	.	.
A	254	28.2	254	28.2
B	204	22.6	458	50.8
C	195	21.6	653	72.4
D	128	14.2	781	86.6
E	121	13.4	902	100.0

YR174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
A	156	16.4	156	16.4
B	221	23.2	377	39.6
C	134	14.1	511	53.6
D	370	38.8	881	92.4
E	72	7.6	953	100.0

YR175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	257	.	.	.
A	536	14.2	536	14.2
B	505	13.4	1041	27.6
C	1001	26.5	2042	54.1
D	893	23.7	2935	77.8
E	838	22.2	3773	100.0

YR176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3119	.	.	.
A	276	30.3	276	30.3
B	154	16.9	430	47.2
C	154	16.9	584	64.1
D	135	14.8	719	78.9
E	192	21.1	911	100.0

YR177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	69	7.2	69	7.2
B	73	7.6	142	14.8
C	662	68.9	804	83.7
D	68	7.1	872	90.7
E	89	9.3	961	100.0

YR178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
A	183	19.7	183	19.7
B	93	10.0	276	29.6
C	414	44.5	690	74.1
D	46	4.9	736	79.1
E	195	20.9	931	100.0

YR179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	237	.	.	.
A	1314	34.6	1314	34.6
B	503	13.3	1817	47.9
C	781	20.6	2598	68.5
D	468	12.3	3066	80.8
E	727	19.2	3793	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
A	201	20.9	201	20.9
B	417	43.4	618	64.3
C	230	23.9	848	88.2
D	66	6.9	914	95.1
E	47	4.9	961	100.0

YR181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
A	442	11.6	442	11.6
B	2012	52.9	2454	64.5
C	385	10.1	2839	74.6
D	200	5.3	3039	79.9
E	765	20.1	3804	100.0

YR182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
A	238	25.5	238	25.5
B	81	8.7	319	34.2
C	99	10.6	418	44.8
D	375	40.2	793	85.1
E	139	14.9	932	100.0

YR183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
A	97	10.1	97	10.1
B	42	4.4	139	14.5
C	254	26.5	393	40.9
D	519	54.1	912	95.0
E	48	5.0	960	100.0

YR184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
A	350	37.5	350	37.5
B	81	8.7	431	46.1
C	303	32.4	734	78.6
D	104	11.1	838	89.7
E	96	10.3	934	100.0

YR185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3101	.	.	.
A	101	10.9	101	10.9
B	145	15.6	246	26.5
C	367	39.5	613	66.0
D	167	18.0	780	84.0
E	149	16.0	929	100.0

YR186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
A	587	60.7	587	60.7
B	66	6.8	653	67.5
C	106	11.0	759	78.5
D	150	15.5	909	94.0
E	58	6.0	967	100.0

YR187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
A	80	8.6	80	8.6
B	527	56.5	607	65.1
C	49	5.3	656	70.4
D	60	6.4	716	76.8
E	216	23.2	932	100.0

YR188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3059	.	.	.
A	17	1.8	17	1.8
B	184	18.9	201	20.7
C	139	14.3	340	35.0
D	453	46.7	793	81.7
E	178	18.3	971	100.0

YR189	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	212	.	.	.
A	568	14.9	568	14.9
B	286	7.5	854	22.4
C	804	21.1	1658	43.4
D	1951	51.1	3609	94.5
E	209	5.5	3818	100.0

THAILAND -- POPULATION A
RAW RESPONSES -- POSTTEST

YR190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	227	.	.	.
A	1976	52.0	1976	52.0
B	604	15.9	2580	67.8
C	533	14.0	3113	81.9
D	458	12.0	3571	93.9
E	232	6.1	3803	100.0

YR191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
A	152	16.3	152	16.3
B	73	7.8	225	24.1
C	658	70.4	883	94.5
D	10	1.1	893	95.6
E	41	4.4	934	100.0

YR192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
A	59	6.3	59	6.3
B	560	60.2	619	66.6
C	74	8.0	693	74.5
D	33	3.5	726	78.1
E	204	21.9	930	100.0

YR193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
A	132	14.2	132	14.2
B	243	26.2	375	40.4
C	429	46.2	804	86.6
D	96	10.3	900	97.0
E	28	3.0	928	100.0

YR194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
A	205	22.2	205	22.2
B	233	25.2	438	47.4
C	243	26.3	681	73.7
D	144	15.6	825	89.3
E	99	10.7	924	100.0

YR195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
A	271	29.1	271	29.1
B	65	7.0	336	36.1
C	271	29.1	607	65.2
D	92	9.9	699	75.1
E	232	24.9	931	100.0

YR196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	238	.	.	.
A	730	19.3	730	19.3
B	288	7.6	1018	26.8
C	2427	64.0	3445	90.8
D	137	3.6	3582	94.5
E	210	5.5	3792	100.0

YR197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
A	418	45.2	418	45.2
B	175	18.9	593	64.2
C	109	11.8	702	76.0
D	86	9.3	788	85.3
E	136	14.7	924	100.0

YR198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
A	161	16.9	161	16.9
B	266	27.9	427	44.7
C	261	27.3	688	72.0
D	97	10.2	785	82.2
E	170	17.8	955	100.0

YR199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
A	47	4.9	47	4.9
B	67	6.9	114	11.8
C	671	69.5	785	81.3
D	103	10.7	888	92.0
E	77	8.0	965	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS001	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
INCORRECT ANSWER	337	36.3	337	36.3
CORRECT ANSWER	591	63.7	928	100.0

YS002	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3078	.	.	.
INCORRECT ANSWER	600	63.0	600	63.0
CORRECT ANSWER	352	37.0	952	100.0

YS003	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	222	.	.	.
INCORRECT ANSWER	1975	51.9	1975	51.9
CORRECT ANSWER	1833	48.1	3808	100.0

YS004	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
INCORRECT ANSWER	856	89.2	856	89.2
CORRECT ANSWER	104	10.8	960	100.0

YS005	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
INCORRECT ANSWER	1901	50.0	1901	50.0
CORRECT ANSWER	1899	50.0	3800	100.0

YS006	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
INCORRECT ANSWER	639	68.5	639	68.5
CORRECT ANSWER	294	31.5	933	100.0

YS007	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
INCORRECT ANSWER	593	62.2	593	62.2
CORRECT ANSWER	361	37.8	954	100.0

YS008	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	222	.	.	.
INCORRECT ANSWER	1495	39.3	1495	39.3
CORRECT ANSWER	2313	60.7	3808	100.0

YS009	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	263	.	.	.
INCORRECT ANSWER	2645	70.2	2645	70.2
CORRECT ANSWER	1122	29.8	3767	100.0

YS010	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3094	.	.	.
INCORRECT ANSWER	593	63.4	593	63.4
CORRECT ANSWER	343	36.6	936	100.0

YS011	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3120	.	.	.
INCORRECT ANSWER	792	87.0	792	87.0
CORRECT ANSWER	118	13.0	910	100.0

YS012	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	216	.	.	.
INCORRECT ANSWER	1411	37.0	1411	37.0
CORRECT ANSWER	2403	63.0	3814	100.0

YS013	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	224	.	.	.
INCORRECT ANSWER	2938	77.2	2938	77.2
CORRECT ANSWER	868	22.8	3806	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS014	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3103	.	.	.
INCORRECT ANSWER	586	63.2	586	63.2
CORRECT ANSWER	341	36.8	927	100.0

YS015	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3118	.	.	.
INCORRECT ANSWER	738	80.9	738	80.9
CORRECT ANSWER	174	19.1	912	100.0

YS016	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
INCORRECT ANSWER	696	72.9	696	72.9
CORRECT ANSWER	259	27.1	955	100.0

YS017	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
INCORRECT ANSWER	1535	40.4	1535	40.4
CORRECT ANSWER	2265	59.6	3800	100.0

YS018	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3103	.	.	.
INCORRECT ANSWER	539	58.1	539	58.1
CORRECT ANSWER	388	41.9	927	100.0

YS019	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3111	.	.	.
INCORRECT ANSWER	630	68.6	630	68.6
CORRECT ANSWER	289	31.4	919	100.0

YS021	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
INCORRECT ANSWER	443	46.1	443	46.1
CORRECT ANSWER	518	53.9	961	100.0

YS022	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
INCORRECT ANSWER	411	44.1	411	44.1
CORRECT ANSWER	521	55.9	932	100.0

YS023	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	225	.	.	.
INCORRECT ANSWER	2180	57.3	2180	57.3
CORRECT ANSWER	1625	42.7	3805	100.0

YS024	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
INCORRECT ANSWER	369	38.6	369	38.6
CORRECT ANSWER	586	61.4	955	100.0

YS025	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
INCORRECT ANSWER	709	76.1	709	76.1
CORRECT ANSWER	223	23.9	932	100.0

YS026	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3068	.	.	.
INCORRECT ANSWER	404	42.0	404	42.0
CORRECT ANSWER	558	58.0	962	100.0

YS027	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3085	.	.	.
INCORRECT ANSWER	742	78.5	742	78.5
CORRECT ANSWER	203	21.5	945	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS028	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	246	.	.	.
INCORRECT ANSWER	2165	57.2	2165	57.2
CORRECT ANSWER	1619	42.8	3784	100.0

YS029	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3128	.	.	.
INCORRECT ANSWER	738	81.8	738	81.8
CORRECT ANSWER	164	18.2	902	100.0

YS030	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
INCORRECT ANSWER	477	51.4	477	51.4
CORRECT ANSWER	451	48.6	928	100.0

YS031	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	241	.	.	.
INCORRECT ANSWER	2293	60.5	2293	60.5
CORRECT ANSWER	1496	39.5	3789	100.0

YS032	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3082	.	.	.
INCORRECT ANSWER	382	40.3	382	40.3
CORRECT ANSWER	566	59.7	948	100.0

YS033	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
INCORRECT ANSWER	208	22.3	208	22.3
CORRECT ANSWER	725	77.7	933	100.0

YS034	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
INCORRECT ANSWER	201	20.8	201	20.8
CORRECT ANSWER	764	79.2	965	100.0

YS035	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3084	.	.	.
INCORRECT ANSWER	726	76.7	726	76.7
CORRECT ANSWER	220	23.3	946	100.0

YS036	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
INCORRECT ANSWER	126	13.1	126	13.1
CORRECT ANSWER	835	86.9	961	100.0

YS037	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3113	.	.	.
INCORRECT ANSWER	752	82.0	752	82.0
CORRECT ANSWER	165	18.0	917	100.0

YS038	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	218	.	.	.
INCORRECT ANSWER	2581	67.7	2581	67.7
CORRECT ANSWER	1231	32.3	3812	100.0

YS039	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3061	.	.	.
INCORRECT ANSWER	908	93.7	908	93.7
CORRECT ANSWER	61	6.3	969	100.0

YS040	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
INCORRECT ANSWER	658	68.7	658	68.7
CORRECT ANSWER	300	31.3	958	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS041	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
INCORRECT ANSWER	193	20.0	193	20.0
CORRECT ANSWER	772	80.0	965	100.0

YS042	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	547	58.8	547	58.8
CORRECT ANSWER	383	41.2	930	100.0

YS043	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	251	.	.	.
INCORRECT ANSWER	2495	66.0	2495	66.0
CORRECT ANSWER	1284	34.0	3779	100.0

YS044	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3108	.	.	.
INCORRECT ANSWER	547	59.3	547	59.3
CORRECT ANSWER	375	40.7	922	100.0

YS045	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	259	.	.	.
INCORRECT ANSWER	2921	77.5	2921	77.5
CORRECT ANSWER	850	22.5	3771	100.0

YS046	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	245	.	.	.
INCORRECT ANSWER	2203	58.2	2203	58.2
CORRECT ANSWER	1582	41.8	3785	100.0

YS047	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
INCORRECT ANSWER	422	44.1	422	44.1
CORRECT ANSWER	535	55.9	957	100.0

YS048	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3103	.	.	.
INCORRECT ANSWER	461	49.7	461	49.7
CORRECT ANSWER	466	50.3	927	100.0

YS049	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
INCORRECT ANSWER	375	39.1	375	39.1
CORRECT ANSWER	584	60.9	959	100.0

YS052	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
INCORRECT ANSWER	434	45.3	434	45.3
CORRECT ANSWER	525	54.7	959	100.0

YS053	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
INCORRECT ANSWER	549	59.4	549	59.4
CORRECT ANSWER	375	40.6	924	100.0

YS054	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
INCORRECT ANSWER	307	31.7	307	31.7
CORRECT ANSWER	661	68.3	968	100.0

YS055	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3111	.	.	.
INCORRECT ANSWER	777	84.5	777	84.5
CORRECT ANSWER	142	15.5	919	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS057	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3107	.	.	.
INCORRECT ANSWER	437	47.3	437	47.3
CORRECT ANSWER	486	52.7	923	100.0

YS058	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
INCORRECT ANSWER	573	61.7	573	61.7
CORRECT ANSWER	355	38.3	928	100.0

YS059	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	562	60.4	562	60.4
CORRECT ANSWER	368	39.6	930	100.0

YS062	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	662	71.2	662	71.2
CORRECT ANSWER	268	28.8	930	100.0

YS063	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3091	.	.	.
INCORRECT ANSWER	657	70.0	657	70.0
CORRECT ANSWER	282	30.0	939	100.0

YS065	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
INCORRECT ANSWER	329	34.4	329	34.4
CORRECT ANSWER	628	65.6	957	100.0

YS066	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3095	.	.	.
INCORRECT ANSWER	409	43.7	409	43.7
CORRECT ANSWER	526	56.3	935	100.0

YS067	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3095	.	.	.
INCORRECT ANSWER	260	27.8	260	27.8
CORRECT ANSWER	675	72.2	935	100.0

YS068	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
INCORRECT ANSWER	428	11.3	428	11.3
CORRECT ANSWER	3374	88.7	3802	100.0

YS069	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	220	.	.	.
INCORRECT ANSWER	527	13.8	527	13.8
CORRECT ANSWER	3283	86.2	3810	100.0

YS070	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	682	73.3	682	73.3
CORRECT ANSWER	248	26.7	930	100.0

YS071	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3101	.	.	.
INCORRECT ANSWER	629	67.7	629	67.7
CORRECT ANSWER	300	32.3	929	100.0

YS072	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
INCORRECT ANSWER	554	59.7	554	59.7
CORRECT ANSWER	374	40.3	928	100.0

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YS073	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
INCORRECT ANSWER	185	19.3	185	19.3
CORRECT ANSWER	773	80.7	958	100.0

YS074	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
INCORRECT ANSWER	645	69.8	645	69.8
CORRECT ANSWER	279	30.2	924	100.0

YS075	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	235	.	.	.
INCORRECT ANSWER	1839	48.5	1839	48.5
CORRECT ANSWER	1956	51.5	3795	100.0

YS076	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	227	.	.	.
INCORRECT ANSWER	3085	81.1	3085	81.1
CORRECT ANSWER	718	18.9	3803	100.0

YS077	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
INCORRECT ANSWER	388	41.7	388	41.7
CORRECT ANSWER	543	58.3	931	100.0

YS078	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
INCORRECT ANSWER	604	62.9	604	62.9
CORRECT ANSWER	356	37.1	960	100.0

YS079	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	215	.	.	.
INCORRECT ANSWER	1359	35.6	1359	35.6
CORRECT ANSWER	2456	64.4	3815	100.0

YS080	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
INCORRECT ANSWER	368	39.4	368	39.4
CORRECT ANSWER	566	60.6	934	100.0

YS081	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3082	.	.	.
INCORRECT ANSWER	869	91.7	869	91.7
CORRECT ANSWER	79	8.3	948	100.0

YS082	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
INCORRECT ANSWER	582	60.1	582	60.1
CORRECT ANSWER	386	39.9	968	100.0

YS084	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
INCORRECT ANSWER	738	80.7	738	80.7
CORRECT ANSWER	177	19.3	915	100.0

YS085	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3097	.	.	.
INCORRECT ANSWER	462	49.5	462	49.5
CORRECT ANSWER	471	50.5	933	100.0

YS086	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	232	.	.	.
INCORRECT ANSWER	2392	63.0	2392	63.0
CORRECT ANSWER	1406	37.0	3798	100.0

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YS087	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3108	.	.	.
INCORRECT ANSWER	813	88.2	813	88.2
CORRECT ANSWER	109	11.8	922	100.0

YS088	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
INCORRECT ANSWER	543	56.9	543	56.9
CORRECT ANSWER	411	43.1	954	100.0

YS089	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3093	.	.	.
INCORRECT ANSWER	449	47.9	449	47.9
CORRECT ANSWER	488	52.1	937	100.0

YS090	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	398	42.8	398	42.8
CORRECT ANSWER	532	57.2	930	100.0

YS091	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3062	.	.	.
INCORRECT ANSWER	199	20.6	199	20.6
CORRECT ANSWER	769	79.4	968	100.0

YS093	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3112	.	.	.
INCORRECT ANSWER	740	80.6	740	80.6
CORRECT ANSWER	178	19.4	918	100.0

YS096	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
INCORRECT ANSWER	729	79.7	729	79.7
CORRECT ANSWER	186	20.3	915	100.0

YS097	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3115	.	.	.
INCORRECT ANSWER	521	56.9	521	56.9
CORRECT ANSWER	394	43.1	915	100.0

YS098	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
INCORRECT ANSWER	438	45.9	438	45.9
CORRECT ANSWER	517	54.1	955	100.0

YS099	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
INCORRECT ANSWER	768	80.3	768	80.3
CORRECT ANSWER	189	19.7	957	100.0

YS100	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
INCORRECT ANSWER	2602	68.5	2602	68.5
CORRECT ANSWER	1197	31.5	3799	100.0

YS101	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
INCORRECT ANSWER	190	20.3	190	20.3
CORRECT ANSWER	744	79.7	934	100.0

YS102	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3092	.	.	.
INCORRECT ANSWER	469	50.0	469	50.0
CORRECT ANSWER	469	50.0	938	100.0

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YS103	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	230	.	.	.
INCORRECT ANSWER	1505	39.6	1505	39.6
CORRECT ANSWER	2295	60.4	3800	100.0

YS104	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3074	.	.	.
INCORRECT ANSWER	305	31.9	305	31.9
CORRECT ANSWER	651	68.1	956	100.0

YS105	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3073	.	.	.
INCORRECT ANSWER	752	78.6	752	78.6
CORRECT ANSWER	205	21.4	957	100.0

YS106	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3102	.	.	.
INCORRECT ANSWER	476	51.3	476	51.3
CORRECT ANSWER	452	48.7	928	100.0

YS107	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3072	.	.	.
INCORRECT ANSWER	428	44.7	428	44.7
CORRECT ANSWER	530	55.3	958	100.0

YS108	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3097	.	.	.
INCORRECT ANSWER	704	75.5	704	75.5
CORRECT ANSWER	229	24.5	933	100.0

YS109	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	219	.	.	.
INCORRECT ANSWER	1035	27.2	1035	27.2
CORRECT ANSWER	2776	72.8	3811	100.0

YS110	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3066	.	.	.
INCORRECT ANSWER	541	56.1	541	56.1
CORRECT ANSWER	423	43.9	964	100.0

YS111	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3069	.	.	.
INCORRECT ANSWER	518	53.9	518	53.9
CORRECT ANSWER	443	46.1	961	100.0

YS112	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3072	.	.	.
INCORRECT ANSWER	557	58.1	557	58.1
CORRECT ANSWER	401	41.9	958	100.0

YS113	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3094	.	.	.
INCORRECT ANSWER	638	68.2	638	68.2
CORRECT ANSWER	298	31.8	936	100.0

YS115	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3099	.	.	.
INCORRECT ANSWER	621	66.7	621	66.7
CORRECT ANSWER	310	33.3	931	100.0

YS116	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3071	.	.	.
INCORRECT ANSWER	649	67.7	649	67.7
CORRECT ANSWER	310	32.3	959	100.0

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YS117	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3069	.	.	.
INCORRECT ANSWER	485	50.5	485	50.5
CORRECT ANSWER	476	49.5	961	100.0

YS118	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3068	.	.	.
INCORRECT ANSWER	523	54.4	523	54.4
CORRECT ANSWER	439	45.6	962	100.0

YS120	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3131	.	.	.
INCORRECT ANSWER	682	75.9	682	75.9
CORRECT ANSWER	217	24.1	899	100.0

YS121	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	219	.	.	.
INCORRECT ANSWER	1302	34.2	1302	34.2
CORRECT ANSWER	2509	65.8	3811	100.0

YS122	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	219	.	.	.
INCORRECT ANSWER	1035	27.2	1035	27.2
CORRECT ANSWER	2776	72.8	3811	100.0

YS123	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3064	.	.	.
INCORRECT ANSWER	633	65.5	633	65.5
CORRECT ANSWER	333	34.5	966	100.0

YS125	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3069	.	.	.
INCORRECT ANSWER	515	53.6	515	53.6
CORRECT ANSWER	446	46.4	961	100.0

YS126	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3076	.	.	.
INCORRECT ANSWER	818	85.7	818	85.7
CORRECT ANSWER	136	14.3	954	100.0

YS127	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	214	.	.	.
INCORRECT ANSWER	2438	63.9	2438	63.9
CORRECT ANSWER	1378	36.1	3816	100.0

YS128	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3076	.	.	.
INCORRECT ANSWER	540	56.6	540	56.6
CORRECT ANSWER	414	43.4	954	100.0

YS129	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3106	.	.	.
INCORRECT ANSWER	680	73.6	680	73.6
CORRECT ANSWER	244	26.4	924	100.0

YS130	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3077	.	.	.
INCORRECT ANSWER	552	57.9	552	57.9
CORRECT ANSWER	401	42.1	953	100.0

YS131	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
	3110	.	.	.
INCORRECT ANSWER	689	74.9	689	74.9
CORRECT ANSWER	231	25.1	920	100.0

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YS132	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3104	.	.	.
INCORRECT ANSWER	459	49.6	459	49.6
CORRECT ANSWER	467	50.4	926	100.0

YS133	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
INCORRECT ANSWER	397	41.3	397	41.3
CORRECT ANSWER	564	58.7	961	100.0

YS134	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
INCORRECT ANSWER	428	44.3	428	44.3
CORRECT ANSWER	539	55.7	967	100.0

YS135	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
INCORRECT ANSWER	590	63.3	590	63.3
CORRECT ANSWER	342	36.7	932	100.0

YS136	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
INCORRECT ANSWER	731	76.4	731	76.4
CORRECT ANSWER	226	23.6	957	100.0

YS137	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3113	.	.	.
INCORRECT ANSWER	520	56.7	520	56.7
CORRECT ANSWER	397	43.3	917	100.0

YS138	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
INCORRECT ANSWER	239	24.9	239	24.9
CORRECT ANSWER	722	75.1	961	100.0

YS139	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3108	.	.	.
INCORRECT ANSWER	599	65.0	599	65.0
CORRECT ANSWER	323	35.0	922	100.0

YS140	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	238	.	.	.
INCORRECT ANSWER	2434	64.2	2434	64.2
CORRECT ANSWER	1358	35.8	3792	100.0

YS141	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3074	.	.	.
INCORRECT ANSWER	430	45.0	430	45.0
CORRECT ANSWER	526	55.0	956	100.0

YS142	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3120	.	.	.
INCORRECT ANSWER	662	72.7	662	72.7
CORRECT ANSWER	248	27.3	910	100.0

YS143	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3101	.	.	.
INCORRECT ANSWER	293	31.5	293	31.5
CORRECT ANSWER	636	68.5	929	100.0

YS144	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
INCORRECT ANSWER	584	61.2	584	61.2
CORRECT ANSWER	371	38.8	955	100.0

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YS145	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3124	.	.	.
INCORRECT ANSWER	646	71.3	646	71.3
CORRECT ANSWER	260	28.7	906	100.0

YS146	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
INCORRECT ANSWER	465	48.2	465	48.2
CORRECT ANSWER	500	51.8	965	100.0

YS148	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3076	.	.	.
INCORRECT ANSWER	585	61.3	585	61.3
CORRECT ANSWER	369	38.7	954	100.0

YS149	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
INCORRECT ANSWER	1218	32.0	1218	32.0
CORRECT ANSWER	2584	68.0	3802	100.0

YS151	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	283	.	.	.
INCORRECT ANSWER	3124	83.4	3124	83.4
CORRECT ANSWER	623	16.6	3747	100.0

YS152	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3072	.	.	.
INCORRECT ANSWER	304	31.7	304	31.7
CORRECT ANSWER	654	68.3	958	100.0

YS155	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
INCORRECT ANSWER	332	34.3	332	34.3
CORRECT ANSWER	635	65.7	967	100.0

YS156	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	233	.	.	.
INCORRECT ANSWER	2140	56.4	2140	56.4
CORRECT ANSWER	1657	43.6	3797	100.0

YS158	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
INCORRECT ANSWER	372	39.0	372	39.0
CORRECT ANSWER	583	61.0	955	100.0

YS159	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	535	57.5	535	57.5
CORRECT ANSWER	395	42.5	930	100.0

YS160	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
INCORRECT ANSWER	476	49.6	476	49.6
CORRECT ANSWER	484	50.4	960	100.0

YS161	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
INCORRECT ANSWER	598	64.7	598	64.7
CORRECT ANSWER	326	35.3	924	100.0

YS162	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3064	.	.	.
INCORRECT ANSWER	567	58.7	567	58.7
CORRECT ANSWER	399	41.3	966	100.0

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YS163	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3071	.	.	.
INCORRECT ANSWER	721	75.2	721	75.2
CORRECT ANSWER	238	24.8	959	100.0

YS164	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
INCORRECT ANSWER	301	31.4	301	31.4
CORRECT ANSWER	659	68.6	960	100.0

YS165	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	225	.	.	.
INCORRECT ANSWER	2199	57.8	2199	57.8
CORRECT ANSWER	1606	42.2	3805	100.0

YS166	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3073	.	.	.
INCORRECT ANSWER	800	83.6	800	83.6
CORRECT ANSWER	157	16.4	957	100.0

YS167	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
INCORRECT ANSWER	1098	28.8	1098	28.8
CORRECT ANSWER	2713	71.2	3811	100.0

YS168	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	218	.	.	.
INCORRECT ANSWER	3614	94.8	3614	94.8
CORRECT ANSWER	198	5.2	3812	100.0

YS169	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
INCORRECT ANSWER	651	68.3	651	68.3
CORRECT ANSWER	302	31.7	953	100.0

YS170	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3128	.	.	.
INCORRECT ANSWER	664	73.6	664	73.6
CORRECT ANSWER	238	26.4	902	100.0

YS171	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3139	.	.	.
INCORRECT ANSWER	682	76.5	682	76.5
CORRECT ANSWER	209	23.5	891	100.0

YS172	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3109	.	.	.
INCORRECT ANSWER	658	71.4	658	71.4
CORRECT ANSWER	263	28.6	921	100.0

YS173	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3128	.	.	.
INCORRECT ANSWER	774	85.8	774	85.8
CORRECT ANSWER	128	14.2	902	100.0

YS174	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3077	.	.	.
INCORRECT ANSWER	583	61.2	583	61.2
CORRECT ANSWER	370	38.8	953	100.0

YS175	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	257	.	.	.
INCORRECT ANSWER	2935	77.8	2935	77.8
CORRECT ANSWER	838	22.2	3773	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS176	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3119	.	.	.
INCORRECT ANSWER	757	83.1	757	83.1
CORRECT ANSWER	154	16.9	911	100.0

YS177	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
INCORRECT ANSWER	299	31.1	299	31.1
CORRECT ANSWER	662	68.9	961	100.0

YS178	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
INCORRECT ANSWER	736	79.1	736	79.1
CORRECT ANSWER	195	20.9	931	100.0

YS179	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	237	.	.	.
INCORRECT ANSWER	3012	79.4	3012	79.4
CORRECT ANSWER	781	20.6	3793	100.0

YS180	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3069	.	.	.
INCORRECT ANSWER	731	76.1	731	76.1
CORRECT ANSWER	230	23.9	961	100.0

YS181	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
INCORRECT ANSWER	1792	47.1	1792	47.1
CORRECT ANSWER	2012	52.9	3804	100.0

YS182	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
INCORRECT ANSWER	557	59.8	557	59.8
CORRECT ANSWER	375	40.2	932	100.0

YS183	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3070	.	.	.
INCORRECT ANSWER	441	45.9	441	45.9
CORRECT ANSWER	519	54.1	960	100.0

YS184	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
INCORRECT ANSWER	631	67.6	631	67.6
CORRECT ANSWER	303	32.4	934	100.0

YS185	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3101	.	.	.
INCORRECT ANSWER	562	60.5	562	60.5
CORRECT ANSWER	367	39.5	929	100.0

YS186	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3063	.	.	.
INCORRECT ANSWER	380	39.3	380	39.3
CORRECT ANSWER	587	60.7	967	100.0

YS187	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3098	.	.	.
INCORRECT ANSWER	405	43.5	405	43.5
CORRECT ANSWER	527	56.5	932	100.0

YS188	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3059	.	.	.
INCORRECT ANSWER	518	53.3	518	53.3
CORRECT ANSWER	453	46.7	971	100.0

THAILAND -- POPULATION A
SCORED RESPONSES -- POSTTEST

YS189	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	212	.	.	.
INCORRECT ANSWER	1867	48.9	1867	48.9
CORRECT ANSWER	1951	51.1	3818	100.0

YS190	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	227	.	.	.
INCORRECT ANSWER	1827	48.0	1827	48.0
CORRECT ANSWER	1976	52.0	3803	100.0

YS191	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3096	.	.	.
INCORRECT ANSWER	861	92.2	861	92.2
CORRECT ANSWER	73	7.8	934	100.0

YS192	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3100	.	.	.
INCORRECT ANSWER	370	39.8	370	39.8
CORRECT ANSWER	560	60.2	930	100.0

YS193	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3102	.	.	.
INCORRECT ANSWER	499	53.8	499	53.8
CORRECT ANSWER	429	46.2	928	100.0

YS194	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
INCORRECT ANSWER	681	73.7	681	73.7
CORRECT ANSWER	243	26.3	924	100.0

YS195	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3099	.	.	.
INCORRECT ANSWER	699	75.1	699	75.1
CORRECT ANSWER	232	24.9	931	100.0

YS196	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	238	.	.	.
INCORRECT ANSWER	1365	36.0	1365	36.0
CORRECT ANSWER	2427	64.0	3792	100.0

YS197	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3106	.	.	.
INCORRECT ANSWER	506	54.8	506	54.8
CORRECT ANSWER	418	45.2	924	100.0

YS198	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3075	.	.	.
INCORRECT ANSWER	694	72.7	694	72.7
CORRECT ANSWER	261	27.3	955	100.0

YS199	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3065	.	.	.
INCORRECT ANSWER	294	30.5	294	30.5
CORRECT ANSWER	671	69.5	965	100.0

Student Questionnaire - Pre test

THAILAND -- POPULATION A
FLAGS FOR STUDENT QUESTIONNAIRES

FLAG FOR STUDENT QUESTIONNAIRE (PRETEST)

XFLAG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	14	0.3	14	0.3
AVAILABLE	4016	99.7	4030	100.0

FLAG FOR STUDENT QUESTIONNAIRE (POSTTEST

YFLAG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
NOT AVAILABLE	206	5.1	206	5.1
AVAILABLE	3824	94.9	4030	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- PRETEST

1.SEX OF STUDENT

XSEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	17	.	.	.
FEMALE	1886	47.0	1886	47.0
MALE	2127	53.0	4013	100.0

2.STUDENTS'AGE-MONTHS

XAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	37	.	.	.
LESS THAN 150	55	0.7	55	0.7
151 TO 155	116	2.9	151	3.8
156 TO 160	277	6.9	428	10.7
161 TO 165	468	11.7	896	22.4
166 TO 170	1040	26.0	1936	48.5
171 TO 175	1018	25.5	2954	74.0
176 TO 180	570	14.3	3524	88.3
181 TO 185	196	4.9	3720	93.2
186 TO 190	172	4.3	3892	97.5
191 TO 195	48	1.2	3940	98.7
196 TO 200	31	0.8	3971	99.4
MORE THAN 200	22	0.6	3993	100.0

3.HOW MANY OLDER BROTHERS AND SISTERS

XOLDSIB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	63	.	.	.
0	878	22.1	878	22.1
1	763	19.2	1641	41.4
2	586	14.8	2227	56.1
3	484	12.2	2711	68.3
4	405	10.2	3116	78.5
5	312	7.9	3428	86.4
6 OR MORE	539	13.6	3967	100.0

IMPORT..SOLVING WORD PROBLEMS

XWPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	24	.	.	.
VERY IMPORTANT	1313	32.8	1313	32.8
IMPORTANT	2325	58.0	3638	90.8
UNDECIDED	251	6.3	3889	97.1
NOT IMPORTANT	109	2.7	3998	99.8
NOT AT ALL IMPOR	8	0.2	4006	100.0

EASY..SOLVING WORD PROBLEMS

XWPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	49	.	.	.
VERY EASY	48	1.2	48	1.2
EASY	705	17.7	753	18.9
UNDECIDED	1945	48.9	2698	67.8
HARD	1170	29.4	3868	97.2
VERY HARD	113	2.8	3981	100.0

LIKE..SOLVING WORD PROBLEMS

XWPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	88	.	.	.
LIKE A LOT	267	6.8	267	6.8
LIKE	2001	50.8	2268	57.5
UNDECIDED	969	24.6	3237	82.1
DISLIKE	684	17.4	3921	99.5
DISLIKE A LOT	21	0.5	3942	100.0

IMPORT..MEMORIZING RULES FORMULAS

XMEMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	20	.	.	.
VERY IMPORTANT	2573	64.2	2573	64.2
IMPORTANT	1263	31.5	3836	95.7
UNDECIDED	98	2.4	3934	98.1
NOT IMPORTANT	71	1.8	4005	99.9
NOT AT ALL IMPOR	5	0.1	4010	100.0

EASY..MEMORIZING RULES FORMULAS

XMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	47	.	.	.
VERY EASY	135	3.4	135	3.4
EASY	1167	29.3	1302	32.7
UNDECIDED	1233	31.0	2535	63.6
HARD	1276	32.0	3811	95.7
VERY HARD	172	4.3	3983	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- PRETEST

LIKE..MEMORIZING RULES FORMULAS

XMEML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	123	.	.	.
LIKE A LOT	370	9.5	370	9.5
LIKE	2064	52.8	2434	62.3
UNDECIDED	904	23.1	3338	85.4
DISLIKE	541	13.8	3879	99.3
DISLIKE A LOT	28	0.7	3907	100.0

XESTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	37	.	.	.
VERY IMPORTANT	687	17.2	687	17.2
IMPORTANT	1730	43.3	2417	60.5
UNDECIDED	881	22.1	3298	82.6
NOT IMPORTANT	638	16.0	3936	98.6
NOT AT ALL IMPOR	57	1.4	3993	100.0

XESTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	48	.	.	.
VERY EASY	111	2.8	111	2.8
EASY	839	21.1	950	23.9
UNDECIDED	1695	42.6	2645	66.4
HARD	1185	29.8	3830	96.2
VERY HARD	152	3.8	3982	100.0

XESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	109	.	.	.
LIKE A LOT	197	5.0	197	5.0
LIKE	1518	38.7	1715	43.7
UNDECIDED	1147	29.3	2862	73.0
DISLIKE	1009	25.7	3871	98.7
DISLIKE A LOT	50	1.3	3921	100.0

IMPORT..CHECKING AN ANSWER

XCHKI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	29	.	.	.
VERY IMPORTANT	1638	40.9	1638	40.9
IMPORTANT	1864	46.6	3502	87.5
UNDECIDED	244	6.1	3746	93.6
NOT IMPORTANT	237	5.9	3983	99.6
NOT AT ALL IMPOR	18	0.4	4001	100.0

EASY..CHECKING AN ANSWER

XCHKE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	51	.	.	.
VERY EASY	257	6.5	257	6.5
EASY	1656	41.6	1913	48.1
UNDECIDED	1358	34.1	3271	82.2
HARD	628	15.8	3899	98.0
VERY HARD	80	2.0	3979	100.0

LIKE..CHECKING AN ANSWER

XCHKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	75	.	.	.
LIKE A LOT	499	12.6	499	12.6
LIKE	2065	52.2	2564	64.8
UNDECIDED	795	20.1	3359	84.9
DISLIKE	556	14.1	3915	99.0
DISLIKE A LOT	40	1.0	3955	100.0

Student Questionnaire - Post test

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

A1:ARE YOU A GIRL OR A BOY

YSEX	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	208	.	.	.
FEMALE	1834	48.0	1834	48.0
MALE	1988	52.0	3822	100.0

A2:WHAT IS YOUR AGE IN MONTHS

YAGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	222	.	.	.
LESS THAN 150	40	0.8	40	0.8
151 TO 155	112	2.9	152	4.0
156 TO 160	267	7.0	419	11.0
161 TO 165	450	11.8	869	22.8
166 TO 170	998	26.2	1867	49.0
171 TO 175	967	25.4	2834	74.4
176 TO 180	542	14.2	3376	88.7
181 TO 185	187	4.9	3563	93.6
186 TO 190	159	4.2	3722	97.7
191 TO 195	41	1.1	3763	98.8
196 TO 200	27	0.7	3790	99.5
MORE THAN 200	18	0.5	3808	100.0

A3.NO OF OLDER BROTHERS AND SISTERS

YOLDSIB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	283	.	.	.
0	680	18.1	680	18.1
1	647	17.3	1327	35.4
2	548	14.6	1875	50.0
3	462	12.3	2337	62.4
4	409	10.9	2746	73.3
5	319	8.5	3065	81.8
6 OR MORE	682	18.2	3747	100.0

AD1:FATHERS OCCUPATION NATIONAL CODE

YFOCCN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	270	.	.	.
0	11	0.3	11	0.3
1	556	14.8	567	15.1
2	1627	43.3	2194	58.4
3	994	26.4	3188	84.8
4	572	15.2	3760	100.0

AD1:FATHER OCCUPATION INTERNATIONAL CODE

YFOCCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	281	.	.	.
UN- OR SEMI-SKIL	557	14.9	557	14.9
SKILLED WORKER	1627	43.4	2184	58.3
CLERICAL OR SALE	994	26.5	3178	84.8
PROFESSIONAL	571	15.2	3749	100.0

AD3:DOES MOTHER HAVE OCCUPATION

YMWORK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	482	.	.	.
HOUSEWIFE	1038	29.3	1038	29.3
PART-TIME WORK	1059	29.8	2097	59.1
FULL-TIME WORK	1451	40.9	3548	100.0

AD5:MOTHER'S OCCUPATION NATIONAL CODE

YMOCCN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1546	.	.	.
0	9	0.4	9	0.4
1	355	14.3	364	14.7
2	969	39.0	1333	53.7
3	979	39.4	2312	93.1
4	172	6.9	2484	100.0

AD5:MOTHER'S OCCUPATION INTERNATIONAL CO

YMOCCI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	1555	.	.	.
UN- OR SEMI-SKIL	355	14.3	355	14.3
SKILLED WORKER	967	39.1	1322	53.4
CLERICAL OR SALE	981	39.6	2303	93.1
PROFESSIONAL	172	6.9	2475	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

A4:FATHERS HIGHEST EDUCATION ATTAINED

YFEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	266	.	.	.
LITTLE OR NONE	610	16.2	610	16.2
PRIMARY SCHOOL	1990	52.9	2600	69.1
SECONDARY SCHOOL	620	16.5	3220	85.5
BEYOND SECONDARY	544	14.5	3764	100.0

A5:MOTHER'S HIGHEST EDUCATION ATTAINED

YMEDUC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	268	.	.	.
LITTLE OR NONE	984	26.2	984	26.2
PRIMARY SCHOOL	2164	57.5	3148	83.7
SECONDARY SCHOOL	359	9.5	3507	93.2
BEYOND SECONDARY	255	6.8	3762	100.0

A6:PARENTS USE LANGUAGE OF INSTRUCTION

YHOMLAN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	253	.	.	.
DO NOT SPEAK	967	25.6	967	25.6
SOMETIMES SPEAK	965	25.5	1932	51.2
USUALLY SPEAK	513	13.6	2445	64.7
ONLY SPEAK	1332	35.3	3777	100.0

A7:YEARS MORE EDUCATION EXPECTED

YMOREED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
NONE AT ALL	100	2.6	100	2.6
UP TO 2 YEARS	185	4.9	285	7.5
3 TO 5 YEARS	1152	30.3	1437	37.8
6 TO 8 YEARS	1542	40.6	2979	78.4
MORE THAN 8 YRS	820	21.6	3799	100.0

AD7:LAST WEEK..HOURS MATH HOMEWORK

YMHWKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	326	.	.	.
0	123	3.3	123	3.3
1	1047	28.3	1170	31.6
2	794	21.4	1964	53.0
3	503	13.6	2467	66.6
4	339	9.2	2806	75.8
5	356	9.6	3162	85.4
6	137	3.7	3299	89.1
7	131	3.5	3430	92.6
8	88	2.4	3518	95.0
9	23	0.6	3541	95.6
10	91	2.5	3632	98.1
11	6	0.2	3638	98.2
12	27	0.7	3665	98.9
13	3	0.1	3668	99.0
14	22	0.6	3690	99.6
15	14	0.4	3704	100.0

AD7:TYPICAL WEEK..HOURS MATH HOMEWORK

YMHWKT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	293	.	.	.
0	49	1.3	49	1.3
1	619	16.6	668	17.9
2	669	17.9	1337	35.8
3	519	13.9	1856	49.7
4	489	13.1	2345	62.8
5	498	13.3	2843	76.1
6	210	5.6	3053	81.7
7	189	5.1	3242	86.8
8	134	3.6	3376	90.3
9	35	0.9	3411	91.3
10	128	3.4	3539	94.7
11	13	0.3	3552	95.0
12	41	1.1	3593	96.1
13	8	0.2	3601	96.4
14	42	1.1	3643	97.5
15	28	0.7	3671	98.2
16	9	0.2	3680	98.5
17	5	0.1	3685	98.6
18	6	0.2	3691	98.8
20	17	0.5	3708	99.2
21	7	0.2	3715	99.4
22	3	0.1	3718	99.5
23	2	0.1	3720	99.5
24	10	0.3	3730	99.8
25	2	0.1	3732	99.9
28	2	0.1	3734	99.9
30	3	0.1	3737	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

AD8:LAST WEEK..HOURS ALL HOMEWORK

YAHWKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	319	.	.	.
0	84	2.3	84	2.3
1	207	5.6	291	7.8
2	531	14.3	822	22.2
3	575	15.5	1397	37.6
4	392	10.6	1789	48.2
5	392	10.6	2181	58.8
6	203	5.5	2384	64.2
7	189	5.1	2573	69.3
8	177	4.8	2750	74.1
9	64	1.7	2814	75.8
10	301	8.1	3115	83.9
11	24	0.6	3139	84.6
12	116	3.1	3255	87.7
13	29	0.8	3284	88.5
14	51	1.4	3335	89.9
15	119	3.2	3454	93.1
16	22	0.6	3476	93.7
17	14	0.4	3490	94.0
18	31	0.8	3521	94.9
19	5	0.1	3526	95.0
20	73	2.0	3599	97.0
21	20	0.5	3619	97.5
22	6	0.2	3625	97.7
23	3	0.1	3628	97.8
24	32	0.9	3660	98.6
25	18	0.5	3678	99.1
27	3	0.1	3681	99.2
28	9	0.2	3690	99.4
29	1	0.0	3691	99.5
30	20	0.5	3711	100.0

AD8:TYPICAL WEEK..HOURS ALL HOMEWORK

YAHWKT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	357	.	.	.
0	37	1.0	37	1.0
1	212	5.8	249	6.8
2	413	11.2	662	18.0
3	424	11.5	1086	29.6
4	368	10.0	1454	39.6
5	406	11.1	1860	50.6
6	247	6.7	2107	57.4
7	228	6.2	2335	63.6
8	195	5.3	2530	68.9
9	96	2.6	2626	71.5
10	292	7.9	2918	79.4
11	46	1.3	2964	80.7
12	137	3.7	3101	84.4
13	38	1.0	3139	85.5
14	75	2.0	3214	87.5
15	139	3.8	3353	91.3
16	28	0.8	3381	92.1
17	19	0.5	3400	92.6
18	26	0.7	3426	93.3
19	8	0.2	3434	93.5
20	94	2.6	3528	96.1
21	31	0.8	3559	96.9
22	9	0.2	3568	97.1
23	6	0.2	3574	97.3
24	30	0.8	3604	98.1
25	25	0.7	3629	98.8
26	2	0.1	3631	98.9
27	3	0.1	3634	98.9
28	15	0.4	3649	99.3
30	24	0.7	3673	100.0

AD9:LAST WEEK..EXTRA MATH TUTORING

YTUTORL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	463	.	.	.
0	1366	38.3	1366	38.3
1	905	25.4	2271	63.7
2	542	15.2	2813	78.9
3	307	8.6	3120	87.5
4	167	4.7	3287	92.2
5	137	3.8	3424	96.0
6	30	0.8	3454	96.8
7	52	1.5	3506	98.3
8	15	0.4	3521	98.7
9	12	0.3	3533	99.0
10	20	0.6	3553	99.6
12	4	0.1	3557	99.7
14	7	0.2	3564	99.9
15	3	0.1	3567	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

AD9:TYPICAL WEEK..EXTRA MATH TUTORING

YTUTORT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	518	.	.	.
0	1297	36.9	1297	36.9
1	717	20.4	2014	57.3
2	498	14.2	2512	71.5
3	370	10.5	2882	82.1
4	181	5.2	3063	87.2
5	187	5.3	3250	92.5
6	67	1.9	3317	94.4
7	75	2.1	3392	96.6
8	21	0.6	3413	97.2
9	21	0.6	3434	97.8
10	38	1.1	3472	98.9
11	1	0.0	3473	98.9
12	14	0.4	3487	99.3
14	14	0.4	3501	99.7
15	11	0.3	3512	100.0

A8:HOW FREQUENT FAMILY HELP

YFAMILY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	234	.	.	.
NEVER	1348	35.5	1348	35.5
OCCASIONALLY	2260	59.5	3608	95.0
REGULARLY	188	5.0	3796	100.0

A8:USE OF ABACUS SOROBAN

YABACUS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3417	.	.	.
ONLY WITHIN HOME	442	72.1	442	72.1
ONLY IN MATH CLA	36	5.9	478	78.0
ONLY IN OTHER CL	81	13.2	559	91.2
1 + 2 ONLY	5	0.8	564	92.0
1 + 3 ONLY	25	4.1	589	96.1
ALL THREE	20	3.3	609	99.3
NO	4	0.7	613	100.0

A9:USE OF SLIDE RULE

YSLIDE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3826	.	.	.
ONLY WITHIN HOME	62	30.4	62	30.4
ONLY IN MATH CLA	35	17.2	97	47.5
ONLY IN OTHER CL	74	36.3	171	83.8
1 + 2 ONLY	3	1.5	174	85.3
1 + 3 ONLY	1	0.5	175	85.8
2 + 3 ONLY	2	1.0	177	86.8
ALL THREE	17	8.3	194	95.1
NO	10	4.9	204	100.0

A9:USE OF FOUR-FUNCTION CALCULATOR

YFFCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	2782	.	.	.
ONLY WITHIN HOME	969	77.6	969	77.6
ONLY IN MATH CLA	85	6.8	1054	84.5
ONLY IN OTHER CL	75	6.0	1129	90.5
1 + 2 ONLY	38	3.0	1167	93.5
1 + 3 ONLY	27	2.2	1194	95.7
2 + 3 ONLY	7	0.6	1201	96.2
ALL THREE	45	3.6	1246	99.8
NO	2	0.2	1248	100.0

A9:USE SCIENTIFIC PROGRAM CALCULATOR

YPPCALC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3618	.	.	.
ONLY WITHIN HOME	264	64.1	264	64.1
ONLY IN MATH CLA	30	7.3	294	71.4
ONLY IN OTHER CL	72	17.5	366	88.8
1 + 2 ONLY	6	1.5	372	90.3
1 + 3 ONLY	5	1.2	377	91.5
2 + 3 ONLY	4	1.0	381	92.5
ALL THREE	21	5.1	402	97.6
NO	10	2.4	412	100.0

A9:USE PERSONAL COMPUTER OR TERMINAL

YCOMPTR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	3756	.	.	.
ONLY WITHIN HOME	156	56.9	156	56.9
ONLY IN MATH CLA	23	8.4	179	65.3
ONLY IN OTHER CL	59	21.5	238	86.9
1 + 2 ONLY	3	1.1	241	88.0
1 + 3 ONLY	4	1.5	245	89.4
2 + 3 ONLY	3	1.1	248	90.5
ALL THREE	14	5.1	262	95.6
NO	12	4.4	274	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

A10:CALCULATOR USE FOR CHECKING ANSWERS

YCALCHK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	456	.	.	.
CALCULATOR ONLY	485	13.6	485	13.6
PROGRAM CALC ONL	85	2.4	570	15.9
1 + 2 ONLY	71	2.0	641	17.9
NONE	2933	82.1	3574	100.0

A10:CALCULATOR USE FOR SOLVING PROBLEMS

YCALSLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	476	.	.	.
CALCULATOR ONLY	367	10.3	367	10.3
PROGRAM CALC ONL	82	2.3	449	12.6
1 + 2 ONLY	70	2.0	519	14.6
NONE	3035	85.4	3554	100.0

A10:CALCULATOR USE FOR TAKING TESTS

YCALTST	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	496	.	.	.
CALCULATOR ONLY	99	2.8	99	2.8
PROGRAM CALC ONL	41	1.2	140	4.0
1 + 2 ONLY	43	1.2	183	5.2
NONE	3351	94.8	3534	100.0

A10:CALCULATOR AS AID IN DOING PROJECTS

YCALPRJ	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	484	.	.	.
CALCULATOR ONLY	222	6.3	222	6.3
PROGRAM CALC ONL	91	2.6	313	8.8
1 + 2 ONLY	114	3.2	427	12.0
NONE	3119	88.0	3546	100.0

A10:CALCULATOR USE FOR RECREATION

YCALREC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	506	.	.	.
CALCULATOR ONLY	123	3.5	123	3.5
PROGRAM CALC ONL	59	1.7	182	5.2
1 + 2 ONLY	61	1.7	243	6.9
NONE	3281	93.1	3524	100.0

A10:CALCULATOR USE TO DO HOMEWORK

YCALHKW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	697	.	.	.
CALCULATOR ONLY	587	17.6	587	17.6
PROGRAM CALC ONL	84	2.5	671	20.1
COMPUTER ONLY	1	0.0	672	20.2
1 + 2 ONLY	139	4.2	811	24.3
NONE	2522	75.7	3333	100.0

A11:FATHER SEEMS TO ENJOY DOING MATH

YFLIKES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	238	.	.	.
EXACTLY LIKE	623	16.4	623	16.4
SOMEWHAT LIKE	531	14.0	1154	30.4
UNSURE	1561	41.2	2715	71.6
NOT VERY MUCH LI	644	17.0	3359	88.6
NOT AT ALL LIKE	433	11.4	3792	100.0

A12:MOTHER SEEMS TO ENJOY DOING MATH

YMLIKES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	229	.	.	.
EXACTLY LIKE	359	9.4	359	9.4
SOMEWHAT LIKE	437	11.5	796	20.9
UNSURE	1457	38.3	2253	59.3
NOT VERY MUCH LI	865	22.8	3118	82.0
NOT AT ALL LIKE	683	18.0	3801	100.0

A13:FATHER ABLE TO DO MY MATH HOMEWORK

YFABLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	244	.	.	.
EXACTLY LIKE	748	19.8	748	19.8
SOMEWHAT LIKE	441	11.6	1189	31.4
UNSURE	626	16.5	1815	47.9
NOT VERY MUCH LI	776	20.5	2591	68.4
NOT AT ALL LIKE	1195	31.6	3786	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

A14:MOTHER ABLE TO DO MY MATH HOMEWORK

YMABLE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	244	.	.	.
EXACTLY LIKE	401	10.6	401	10.6
SOMEWHAT LIKE	327	8.6	728	19.2
UNSURE	732	19.3	1460	38.6
NOT VERY MUCH LI	910	24.0	2370	62.6
NOT AT ALL LIKE	1416	37.4	3786	100.0

A15:PARENTS INTERESTED HELPING IN MATH

YPINT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
EXACTLY LIKE	911	23.9	911	23.9
SOMEWHAT LIKE	617	16.2	1528	40.2
UNSURE	907	23.8	2435	64.0
NOT VERY MUCH LI	741	19.5	3176	83.5
NOT AT ALL LIKE	628	16.5	3804	100.0

A16:MOTHER THINKS MATH IMPORTANT FOR ME

YMIMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	239	.	.	.
EXACTLY LIKE	2390	63.0	2390	63.0
SOMEWHAT LIKE	640	16.9	3030	79.9
UNSURE	541	14.3	3571	94.2
NOT VERY MUCH LI	146	3.9	3717	98.0
NOT AT ALL LIKE	74	2.0	3791	100.0

A17:FATHER THINKS MATH IMPORTANT FOR ME

YFIMPT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
EXACTLY LIKE	2492	65.5	2492	65.5
SOMEWHAT LIKE	645	17.0	3137	82.5
UNSURE	501	13.2	3638	95.6
NOT VERY MUCH LI	110	2.9	3748	98.5
NOT AT ALL LIKE	56	1.5	3804	100.0

A18:PARENTS ENCOURAGE ME TO LEARN MATH

YPENC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	224	.	.	.
EXACTLY LIKE	1873	49.2	1873	49.2
SOMEWHAT LIKE	819	21.5	2692	70.7
UNSURE	878	23.1	3570	93.8
NOT VERY MUCH LI	174	4.6	3744	98.4
NOT AT ALL LIKE	62	1.6	3806	100.0

A19:PARENTS WANT ME TO DO WELL IN MATH

YPWANT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	220	.	.	.
EXACTLY LIKE	2573	67.5	2573	67.5
SOMEWHAT LIKE	717	18.8	3290	86.4
UNSURE	389	10.2	3679	96.6
NOT VERY MUCH LI	96	2.5	3775	99.1
NOT AT ALL LIKE	35	0.9	3810	100.0

B1:IMPORT..CHECKING AN ANSWER

YCHKI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	233	.	.	.
VERY IMPORTANT	1234	32.5	1234	32.5
IMPORTANT	2316	61.0	3550	93.5
UNDECIDED	168	4.4	3718	97.9
NOT IMPORTANT	76	2.0	3794	99.9
NOT AT ALL IMPOR	3	0.1	3797	100.0

B1:EASY..CHECKING AN ANSWER

YCHKE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	367	.	.	.
VERY EASY	94	2.6	94	2.6
EASY	1199	32.7	1293	35.3
UNDECIDED	1183	32.3	2476	67.6
HARD	1119	30.5	3595	98.1
VERY HARD	68	1.9	3663	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

B1:LIKE..CHECKING AN ANSWER

YCHKL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	390	.	.	.
LIKE A LOT	276	7.6	276	7.6
LIKE	2023	55.6	2299	63.2
UNDECIDED	694	19.1	2993	82.2
DISLIKE	612	16.8	3605	99.0
DISLIKE A LOT	35	1.0	3640	100.0

B2:IMPORT..MEMORIZING RULES FORMULAS

YMEMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	241	.	.	.
VERY IMPORTANT	2420	63.9	2420	63.9
IMPORTANT	1270	33.5	3690	97.4
UNDECIDED	59	1.6	3749	98.9
NOT IMPORTANT	37	1.0	3786	99.9
NOT AT ALL IMPOR	3	0.1	3789	100.0

B2:EASY..MEMORIZING RULES FORMULAS

YMEME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	350	.	.	.
VERY EASY	131	3.6	131	3.6
EASY	1069	29.0	1200	32.6
UNDECIDED	802	21.8	2002	54.4
HARD	1529	41.5	3531	96.0
VERY HARD	149	4.0	3680	100.0

B2:LIKE..MEMORIZING RULES FORMULAS

YMEML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	377	.	.	.
LIKE A LOT	355	9.7	355	9.7
LIKE	1869	51.2	2224	60.9
UNDECIDED	680	18.6	2904	79.5
DISLIKE	717	19.6	3621	99.1
DISLIKE A LOT	32	0.9	3653	100.0

B3:IMPORT..USING CHARTS GRAPHS

YCHRTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	265	.	.	.
VERY IMPORTANT	461	12.2	461	12.2
IMPORTANT	2231	59.3	2692	71.5
UNDECIDED	438	11.6	3130	83.1
NOT IMPORTANT	608	16.1	3738	99.3
NOT AT ALL IMPOR	27	0.7	3765	100.0

B3:EASY..USING CHARTS GRAPHS

YCHRTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	334	.	.	.
VERY EASY	356	9.6	356	9.6
EASY	2138	57.8	2494	67.5
UNDECIDED	664	18.0	3158	85.4
HARD	507	13.7	3665	99.2
VERY HARD	31	0.8	3696	100.0

B3:LIKE..USING CHARTS GRAPHS

YCHRTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	344	.	.	.
LIKE A LOT	533	14.5	533	14.5
LIKE	1973	53.5	2506	68.0
UNDECIDED	508	13.8	3014	81.8
DISLIKE	636	17.3	3650	99.0
DISLIKE A LOT	36	1.0	3686	100.0

B4:IMPORT..SOLVING WORD PROBLEMS

YWPI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	260	.	.	.
VERY IMPORTANT	1385	36.7	1385	36.7
IMPORTANT	1987	52.7	3372	89.4
UNDECIDED	292	7.7	3664	97.2
NOT IMPORTANT	98	2.6	3762	99.8
NOT AT ALL IMPOR	8	0.2	3770	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

B4:EASY..SOLVING WORD PROBLEMS

YWPE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	330	.	.	.
VERY EASY	61	1.6	61	1.6
EASY	495	13.4	556	15.0
UNDECIDED	985	26.6	1541	41.6
HARD	1946	52.6	3487	94.2
VERY HARD	213	5.8	3700	100.0

B4:LIKE..SOLVING WORD PROBLEMS

YWPL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	351	.	.	.
LIKE A LOT	201	5.5	201	5.5
LIKE	1299	35.3	1500	40.8
UNDECIDED	941	25.6	2441	66.3
DISLIKE	1169	31.8	3610	98.1
DISLIKE A LOT	69	1.9	3679	100.0

B5:IMPORT..SOLVING EQUATIONS

YEQUAI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	286	.	.	.
VERY IMPORTANT	1135	30.3	1135	30.3
IMPORTANT	2249	60.1	3384	90.4
UNDECIDED	217	5.8	3601	96.2
NOT IMPORTANT	135	3.6	3736	99.8
NOT AT ALL IMPOR	8	0.2	3744	100.0

B5:EASY..SOLVING EQUATIONS

YEQUAE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	324	.	.	.
VERY EASY	189	5.1	189	5.1
EASY	1408	38.0	1597	43.1
UNDECIDED	795	21.5	2392	64.5
HARD	1179	31.8	3571	96.4
VERY HARD	135	3.6	3706	100.0

B5:LIKE..SOLVING EQUATIONS

YEQUAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	339	.	.	.
LIKE A LOT	487	13.2	487	13.2
LIKE	1904	51.6	2391	64.8
UNDECIDED	585	15.8	2976	80.6
DISLIKE	664	18.0	3640	98.6
DISLIKE A LOT	51	1.4	3691	100.0

B6:IMPORT..SOLVING INEQUALITIES

YINEQI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	285	.	.	.
VERY IMPORTANT	893	23.8	893	23.8
IMPORTANT	2313	61.8	3206	85.6
UNDECIDED	349	9.3	3555	94.9
NOT IMPORTANT	174	4.6	3729	99.6
NOT AT ALL IMPOR	16	0.4	3745	100.0

B6:EASY..SOLVING INEQUALITIES

YINEQE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	323	.	.	.
VERY EASY	151	4.1	151	4.1
EASY	1314	35.4	1465	39.5
UNDECIDED	961	25.9	2426	65.4
HARD	1150	31.0	3576	96.5
VERY HARD	131	3.5	3707	100.0

B6:LIKE..SOLVING INEQUALITIES

YINEQL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	335	.	.	.
LIKE A LOT	355	9.6	355	9.6
LIKE	1791	48.5	2146	58.1
UNDECIDED	740	20.0	2886	78.1
DISLIKE	747	20.2	3633	98.3
DISLIKE A LOT	62	1.7	3695	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

B7:IMPORT..LEARN GEOMETRIC FIGURES

YGEOMI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	290	.	.	.
VERY IMPORTANT	945	25.3	945	25.3
IMPORTANT	2127	56.9	3072	82.1
UNDECIDED	372	9.9	3444	92.1
NOT IMPORTANT	274	7.3	3718	99.4
NOT AT ALL IMPOR	22	0.6	3740	100.0

B7:EASY..LEARNING GEOMETRIC FIGURES

YGEOME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	331	.	.	.
VERY EASY	137	3.7	137	3.7
EASY	1036	28.0	1173	31.7
UNDECIDED	845	22.8	2018	54.6
HARD	1470	39.7	3488	94.3
VERY HARD	211	5.7	3699	100.0

B7:LIKE..LEARNING GEOMETRIC FIGURES

YGEOML	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	314	.	.	.
LIKE A LOT	337	9.1	337	9.1
LIKE	1505	40.5	1842	49.6
UNDECIDED	645	17.4	2487	66.9
DISLIKE	1127	30.3	3614	97.3
DISLIKE A LOT	102	2.7	3716	100.0

B8:IMPORT..ESTIMATING ANSWERS

YESTI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	270	.	.	.
VERY IMPORTANT	589	15.7	589	15.7
IMPORTANT	1800	47.9	2389	63.5
UNDECIDED	749	19.9	3138	83.5
NOT IMPORTANT	553	14.7	3691	98.2
NOT AT ALL IMPOR	69	1.8	3760	100.0

B8:EASY..ESTIMATING ANSWERS

YESTE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	347	.	.	.
VERY EASY	164	4.5	164	4.5
EASY	1228	33.3	1392	37.8
UNDECIDED	1132	30.7	2524	68.5
HARD	1068	29.0	3592	97.5
VERY HARD	91	2.5	3683	100.0

B8:LIKE..ESTIMATING ANSWERS

YESTL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	342	.	.	.
LIKE A LOT	243	6.6	243	6.6
LIKE	1445	39.2	1688	45.8
UNDECIDED	918	24.9	2606	70.7
DISLIKE	1013	27.5	3619	98.1
DISLIKE A LOT	69	1.9	3688	100.0

B9:IMPORT..LEARNING RATIO PROPORTION

YRATI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	287	.	.	.
VERY IMPORTANT	887	23.7	887	23.7
IMPORTANT	2363	63.1	3250	86.8
UNDECIDED	321	8.6	3571	95.4
NOT IMPORTANT	154	4.1	3725	99.5
NOT AT ALL IMPOR	18	0.5	3743	100.0

B9:EASY..LEARNING RATIO PROPORTION

YRATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	334	.	.	.
VERY EASY	174	4.7	174	4.7
EASY	1496	40.5	1670	45.2
UNDECIDED	928	25.1	2598	70.3
HARD	1018	27.5	3616	97.8
VERY HARD	80	2.2	3696	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

B9:LIKE..LEARNING RATIO PROPORTION

YRATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	336	.	.	.
LIKE A LOT	391	10.6	391	10.6
LIKE	1901	51.5	2292	62.0
UNDECIDED	704	19.1	2996	81.1
DISLIKE	659	17.8	3655	98.9
DISLIKE A LOT	39	1.1	3694	100.0

B10:IMPORT..DECIMAL FRACTION PROBLEMS

YDECI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	278	.	.	.
VERY IMPORTANT	1168	31.1	1168	31.1
IMPORTANT	2182	58.2	3350	89.3
UNDECIDED	257	6.8	3607	96.1
NOT IMPORTANT	131	3.5	3738	99.6
NOT AT ALL IMPOR	14	0.4	3752	100.0

B10:EASY..DECIMAL FRACTION PROBLEMS

YDECE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	316	.	.	.
VERY EASY	202	5.4	202	5.4
EASY	1402	37.7	1604	43.2
UNDECIDED	864	23.3	2468	66.5
HARD	1122	30.2	3590	96.7
VERY HARD	124	3.3	3714	100.0

B10:LIKE..DECIMAL FRACTION PROBLEMS

YDECL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	317	.	.	.
LIKE A LOT	428	11.5	428	11.5
LIKE	1860	50.1	2288	61.6
UNDECIDED	636	17.1	2924	78.8
DISLIKE	744	20.0	3668	98.8
DISLIKE A LOT	45	1.2	3713	100.0

B11:IMPORT..WORKING WITH SETS

YSETSI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	523	.	.	.
VERY IMPORTANT	545	15.5	545	15.5
IMPORTANT	1352	38.6	1897	54.1
UNDECIDED	1357	38.7	3254	92.8
NOT IMPORTANT	219	6.2	3473	99.0
NOT AT ALL IMPOR	34	1.0	3507	100.0

B11:EASY..WORKING WITH SETS

YSETSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	559	.	.	.
VERY EASY	57	1.6	57	1.6
EASY	427	12.3	484	13.9
UNDECIDED	1684	48.5	2168	62.5
HARD	1136	32.7	3304	95.2
VERY HARD	167	4.8	3471	100.0

B11:LIKE..WORKING WITH SETS

YSETSL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	569	.	.	.
LIKE A LOT	95	2.7	95	2.7
LIKE	648	18.7	743	21.5
UNDECIDED	1650	47.7	2393	69.1
DISLIKE	978	28.3	3371	97.4
DISLIKE A LOT	90	2.6	3461	100.0

B12:IMPORT..LEARNING UNITS OF MEASURE

YMEASI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	273	.	.	.
VERY IMPORTANT	1488	39.6	1488	39.6
IMPORTANT	2025	53.9	3513	93.5
UNDECIDED	160	4.3	3673	97.8
NOT IMPORTANT	80	2.1	3753	99.9
NOT AT ALL IMPOR	4	0.1	3757	100.0

THAILAND -- POPULATION A
STUDENT QUESTIONNAIRE -- POSTTEST

B12:EASY..LEARNING UNITS OF MEASURE

YMEASE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	341	.	.	.
VERY EASY	122	3.3	122	3.3
EASY	1244	33.7	1366	37.0
UNDECIDED	930	25.2	2296	62.2
HARD	1261	34.2	3557	96.4
VERY HARD	132	3.6	3689	100.0

B12:LIKE..LEARNING UNITS OF MEASURE

YMEASL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	346	.	.	.
LIKE A LOT	336	9.1	336	9.1
LIKE	1894	51.4	2230	60.5
UNDECIDED	667	18.1	2897	78.6
DISLIKE	721	19.6	3618	98.2
DISLIKE A LOT	66	1.8	3684	100.0

B13:IMPORT..DRAWING GEOMETRIC FIGURES

YDRAWI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	306	.	.	.
VERY IMPORTANT	618	16.6	618	16.6
IMPORTANT	2099	56.4	2717	73.0
UNDECIDED	407	10.9	3124	83.9
NOT IMPORTANT	553	14.8	3677	98.7
NOT AT ALL IMPOR	47	1.3	3724	100.0

B13:EASY..DRAWING GEOMETRIC FIGURES

YDRAWE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	338	.	.	.
VERY EASY	251	6.8	251	6.8
EASY	1788	48.4	2039	55.2
UNDECIDED	710	19.2	2749	74.5
HARD	865	23.4	3614	97.9
VERY HARD	78	2.1	3692	100.0

B13:LIKE..DRAWING GEOMETRIC FIGURES

YDRAWL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	309	.	.	.
LIKE A LOT	482	13.0	482	13.0
LIKE	1845	49.6	2327	62.5
UNDECIDED	495	13.3	2822	75.8
DISLIKE	828	22.3	3650	98.1
DISLIKE A LOT	71	1.9	3721	100.0

B14:IMPORT..STATISTICAL TABLES

YSTATI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	308	.	.	.
VERY IMPORTANT	630	16.9	630	16.9
IMPORTANT	2125	57.1	2755	74.0
UNDECIDED	519	13.9	3274	88.0
NOT IMPORTANT	409	11.0	3683	99.0
NOT AT ALL IMPOR	39	1.0	3722	100.0

B14:EASY..STATISTICAL TABLES

YSTATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	334	.	.	.
VERY EASY	261	7.1	261	7.1
EASY	1912	51.7	2173	58.8
UNDECIDED	954	25.8	3127	84.6
HARD	534	14.4	3661	99.1
VERY HARD	35	0.9	3696	100.0

B14:LIKE..STATISTICAL TABLES

YSTATL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	343	.	.	.
LIKE A LOT	370	10.0	370	10.0
LIKE	1841	49.9	2211	60.0
UNDECIDED	720	19.5	2931	79.5
DISLIKE	718	19.5	3649	99.0
DISLIKE A LOT	38	1.0	3687	100.0

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B15:IMPORT..COMPARE GEOMETRIC FIGURES

YFIGI	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	297	.	.	.
VERY IMPORTANT	694	18.6	694	18.6
IMPORTANT	1926	51.6	2620	70.2
UNDECIDED	583	15.6	3203	85.8
NOT IMPORTANT	494	13.2	3697	99.0
NOT AT ALL IMPOR	36	1.0	3733	100.0

B15:EASY..COMPARING GEOMETRIC FIGURES

YFIGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	331	.	.	.
VERY EASY	153	4.1	153	4.1
EASY	1290	34.9	1443	39.0
UNDECIDED	1089	29.4	2532	68.5
HARD	1078	29.1	3610	97.6
VERY HARD	89	2.4	3699	100.0

B15:LIKE..COMPARING GEOMETRIC FIGURES

YFIGL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	329	.	.	.
LIKE A LOT	292	7.9	292	7.9
LIKE	1514	40.9	1806	48.8
UNDECIDED	853	23.0	2659	71.8
DISLIKE	963	26.0	3622	97.9
DISLIKE A LOT	79	2.1	3701	100.0

C1:WORD PROBLEMS FUN WITH CALCULATOR

YFUNCAL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	221	.	.	.
STRONGLY DISAGRE	379	10.0	379	10.0
DISAGREE	1324	34.8	1703	44.7
UNDECIDED	698	18.3	2401	63.0
AGREE	1108	29.1	3509	92.1
STRONGLY AGREE	300	7.9	3809	100.0

C2:I CAN GET ALONG WELL WITHOUT MATH

YGOWO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
STRONGLY DISAGRE	1053	27.6	1053	27.6
DISAGREE	1828	48.0	2881	75.6
UNDECIDED	661	17.3	3542	92.9
AGREE	207	5.4	3749	98.4
STRONGLY AGREE	62	1.6	3811	100.0

C3:I USUALLY UNDERSTAND MATH CLASS

YUSTAND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	221	.	.	.
STRONGLY DISAGRE	144	3.8	144	3.8
DISAGREE	843	22.1	987	25.9
UNDECIDED	2139	56.2	3126	82.1
AGREE	596	15.6	3722	97.7
STRONGLY AGREE	87	2.3	3809	100.0

C4:I WILL WORK TO UNDERSTAND MATH IDEA

YWRKLNG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	218	.	.	.
STRONGLY DISAGRE	81	2.1	81	2.1
DISAGREE	434	11.4	515	13.5
UNDECIDED	990	26.0	1505	39.5
AGREE	1798	47.2	3303	86.6
STRONGLY AGREE	509	13.4	3812	100.0

C5:MATH NOT NEEDED IN MOST OCCUPATIONS

YNOTNEC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	214	.	.	.
STRONGLY DISAGRE	1213	31.8	1213	31.8
DISAGREE	1709	44.8	2922	76.6
UNDECIDED	338	8.9	3260	85.4
AGREE	347	9.1	3607	94.5
STRONGLY AGREE	209	5.5	3816	100.0

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C6:I WANT TO DO WELL IN MATHEMATICS

YIWANT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	216	.	.	.
STRONGLY DISAGRE	13	0.3	13	0.3
DISAGREE	37	1.0	50	1.3
UNDECIDED	211	5.5	261	6.8
AGREE	1691	44.3	1952	51.2
STRONGLY AGREE	1862	48.8	3814	100.0

C7:WOULD LIKE JOB THAT USES MATH

YJOBUSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	220	.	.	.
STRONGLY DISAGRE	68	1.8	68	1.8
DISAGREE	325	8.5	393	10.3
UNDECIDED	1514	39.7	1907	50.1
AGREE	1326	34.8	3233	84.9
STRONGLY AGREE	577	15.1	3810	100.0

C8:NO NEW MATH DISCOVERIES LATELY

YNONEW	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
STRONGLY DISAGRE	106	2.8	106	2.8
DISAGREE	648	17.0	754	19.8
UNDECIDED	1714	45.1	2468	64.9
AGREE	1115	29.3	3583	94.2
STRONGLY AGREE	219	5.8	3802	100.0

C9:MATH HELPS ONE THINK LOGICALLY

YMTHLOG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	225	.	.	.
STRONGLY DISAGRE	27	0.7	27	0.7
DISAGREE	122	3.2	149	3.9
UNDECIDED	522	13.7	671	17.6
AGREE	2054	54.0	2725	71.6
STRONGLY AGREE	1080	28.4	3805	100.0

C10:I FEEL GOOD IF I SOLVE MATH PROBLEM

YFLGOOD	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	216	.	.	.
STRONGLY DISAGRE	19	0.5	19	0.5
DISAGREE	58	1.5	77	2.0
UNDECIDED	335	8.8	412	10.8
AGREE	1749	45.9	2161	56.7
STRONGLY AGREE	1653	43.3	3814	100.0

C11:CALCULATOR MEANS NOT LEARN COMPUTE

YNOCOMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	220	.	.	.
STRONGLY DISAGRE	963	25.3	963	25.3
DISAGREE	1890	49.6	2853	74.9
UNDECIDED	542	14.2	3395	89.1
AGREE	321	8.4	3716	97.5
STRONGLY AGREE	94	2.5	3810	100.0

C12:COMPUTER MAKES LEARNING MATH BORING

YBORING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	221	.	.	.
STRONGLY DISAGRE	200	5.3	200	5.3
DISAGREE	667	17.5	867	22.8
UNDECIDED	1162	30.5	2029	53.3
AGREE	1171	30.7	3200	84.0
STRONGLY AGREE	609	16.0	3809	100.0

C13:MATH NOT NEEDED FOR EVERYDAY LIVING

YNONEED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
STRONGLY DISAGRE	1293	33.9	1293	33.9
DISAGREE	1834	48.1	3127	82.1
UNDECIDED	391	10.3	3518	92.3
AGREE	208	5.5	3726	97.8
STRONGLY AGREE	85	2.2	3811	100.0

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C14:PARENTS WANT ME TO DO WELL IN MATH

YPWWELL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	229	.	.	.
STRONGLY DISAGRE	15	0.4	15	0.4
DISAGREE	66	1.7	81	2.1
UNDECIDED	565	14.9	646	17.0
AGREE	1723	45.3	2369	62.3
STRONGLY AGREE	1432	37.7	3801	100.0

C15:I THINK MATHEMATICS IS FUN

YFUN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	222	.	.	.
STRONGLY DISAGRE	156	4.1	156	4.1
DISAGREE	666	17.5	822	21.6
UNDECIDED	1303	34.2	2125	55.8
AGREE	1375	36.1	3500	91.9
STRONGLY AGREE	308	8.1	3808	100.0

C16:EVERYONE SHOULD LEARN COMPUTERS

YALLCMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	221	.	.	.
STRONGLY DISAGRE	65	1.7	65	1.7
DISAGREE	264	6.9	329	8.6
UNDECIDED	738	19.4	1067	28.0
AGREE	2336	61.3	3403	89.3
STRONGLY AGREE	406	10.7	3809	100.0

C17:MATH CHANGE RAPIDLY IN NEAR FUTURE

YCHANGE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	216	.	.	.
STRONGLY DISAGRE	45	1.2	45	1.2
DISAGREE	283	7.4	328	8.6
UNDECIDED	1822	47.8	2150	56.4
AGREE	1291	33.8	3441	90.2
STRONGLY AGREE	373	9.8	3814	100.0

C18:A WOMAN NEEDS CAREER AS MUCH AS MAN

YWOMCAR	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	219	.	.	.
STRONGLY DISAGRE	30	0.8	30	0.8
DISAGREE	148	3.9	178	4.7
UNDECIDED	571	15.0	749	19.7
AGREE	2130	55.9	2879	75.5
STRONGLY AGREE	932	24.5	3811	100.0

C19:ALWAYS RULE SOLVING A MATH PROBLEM

YALWRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
STRONGLY DISAGRE	23	0.6	23	0.6
DISAGREE	178	4.7	201	5.3
UNDECIDED	840	22.1	1041	27.4
AGREE	2367	62.2	3408	89.6
STRONGLY AGREE	396	10.4	3804	100.0

C20:IT SCARES ME TO HAVE TO TAKE MATH

YSCARED	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
STRONGLY DISAGRE	495	13.0	495	13.0
DISAGREE	2016	53.0	2511	66.0
UNDECIDED	991	26.1	3502	92.1
AGREE	262	6.9	3764	98.9
STRONGLY AGREE	40	1.1	3804	100.0

C21:MATH IS IMPORTANT TO GET A GOOD JOB

YMTHJOB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
STRONGLY DISAGRE	42	1.1	42	1.1
DISAGREE	185	4.9	227	6.0
UNDECIDED	631	16.6	858	22.6
AGREE	1944	51.2	2802	73.8
STRONGLY AGREE	997	26.2	3799	100.0

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C22:COULD NEVER BE A GOOD MATHEMATICIAN

YNEVER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	232	.	.	.
STRONGLY DISAGRE	153	4.0	153	4.0
DISAGREE	706	18.6	859	22.6
UNDECIDED	2207	58.1	3066	80.7
AGREE	591	15.6	3657	96.3
STRONGLY AGREE	141	3.7	3798	100.0

C23:I LIKE TO HELP OTHERS WITH MATH

YHELPO	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
STRONGLY DISAGRE	59	1.6	59	1.6
DISAGREE	570	15.0	629	16.6
UNDECIDED	1350	35.5	1979	52.1
AGREE	1628	42.8	3607	94.9
STRONGLY AGREE	193	5.1	3800	100.0

C24:WORKING WITH NUMBERS MAKES ME HAPPY

YHAPPY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
STRONGLY DISAGRE	79	2.1	79	2.1
DISAGREE	534	14.0	613	16.1
UNDECIDED	1778	46.8	2391	62.9
AGREE	1229	32.3	3620	95.2
STRONGLY AGREE	182	4.8	3802	100.0

C25:TRIAL AND ERROR CAN OFTEN BE USED

YTAESLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	239	.	.	.
STRONGLY DISAGRE	188	5.0	188	5.0
DISAGREE	942	24.8	1130	29.8
UNDECIDED	1318	34.8	2448	64.6
AGREE	1163	30.7	3611	95.3
STRONGLY AGREE	180	4.7	3791	100.0

C26:COMPUTERS SOLVE BETTER THAN PEOPLE

YCMPSLV	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	237	.	.	.
STRONGLY DISAGRE	250	6.6	250	6.6
DISAGREE	1078	28.4	1328	35.0
UNDECIDED	1444	38.1	2772	73.1
AGREE	823	21.7	3595	94.8
STRONGLY AGREE	198	5.2	3793	100.0

C27:I AM NOT SO GOOD AT MATHEMATICS

YING	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
STRONGLY DISAGRE	75	2.0	75	2.0
DISAGREE	548	14.4	623	16.4
UNDECIDED	1326	34.9	1949	51.3
AGREE	1624	42.7	3573	94.0
STRONGLY AGREE	229	6.0	3802	100.0

C28:I FEEL CHALLENGED BY DIFFICULT MATH

YCHALL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
STRONGLY DISAGRE	59	1.6	59	1.6
DISAGREE	450	11.8	509	13.4
UNDECIDED	947	24.9	1456	38.3
AGREE	1891	49.8	3347	88.1
STRONGLY AGREE	452	11.9	3799	100.0

C29:LEARNING MATH MOSTLY MEMORIZING

YMEMRZG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
STRONGLY DISAGRE	85	2.2	85	2.2
DISAGREE	571	15.0	656	17.3
UNDECIDED	700	18.4	1356	35.7
AGREE	1827	48.1	3183	83.8
STRONGLY AGREE	617	16.2	3800	100.0

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C30:WHEN CAN'T SOLVE..FEEL LOST IN MAZE

YINMAZE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	234	.	.	.
STRONGLY DISAGRE	48	1.3	48	1.3
DISAGREE	302	8.0	350	9.2
UNDECIDED	788	20.8	1138	30.0
AGREE	1990	52.4	3128	82.4
STRONGLY AGREE	668	17.6	3796	100.0

C31:MATH PROBLEMS SOLVED WITHOUT RULES

YWORULE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	232	.	.	.
STRONGLY DISAGRE	482	12.7	482	12.7
DISAGREE	1826	48.1	2308	60.8
UNDECIDED	1079	28.4	3387	89.2
AGREE	359	9.5	3746	98.6
STRONGLY AGREE	52	1.4	3798	100.0

C32:LOOKING FORWARD TO TAKING MORE MATH

YMORMTH	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
STRONGLY DISAGRE	32	0.8	32	0.8
DISAGREE	118	3.1	150	3.9
UNDECIDED	828	21.8	978	25.7
AGREE	1910	50.3	2888	76.0
STRONGLY AGREE	912	24.0	3800	100.0

C33:COMPUTERS DO GOOD THINGS FOR PEOPLE

YCOMPOK	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	227	.	.	.
STRONGLY DISAGRE	80	2.1	80	2.1
DISAGREE	430	11.3	510	13.4
UNDECIDED	1250	32.9	1760	46.3
AGREE	1762	46.3	3522	92.6
STRONGLY AGREE	281	7.4	3803	100.0

C34:MATH GOOD FIELD FOR CREATIVE PEOPLE

YCREATE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
STRONGLY DISAGRE	28	0.7	28	0.7
DISAGREE	269	7.1	297	7.8
UNDECIDED	772	20.3	1069	28.1
AGREE	2120	55.8	3189	83.9
STRONGLY AGREE	613	16.1	3802	100.0

C35:NOT WELL IN MATH HOWEVER HARD I TRY

YNOTWLL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	227	.	.	.
STRONGLY DISAGRE	173	4.5	173	4.5
DISAGREE	1137	29.9	1310	34.4
UNDECIDED	1392	36.6	2702	71.0
AGREE	903	23.7	3605	94.8
STRONGLY AGREE	198	5.2	3803	100.0

C36:NOT FUN TO LEARN MATH IF CALCULATOR

YLSSFUN	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	233	.	.	.
STRONGLY DISAGRE	123	3.2	123	3.2
DISAGREE	716	18.9	839	22.1
UNDECIDED	1298	34.2	2137	56.3
AGREE	1347	35.5	3484	91.8
STRONGLY AGREE	313	8.2	3797	100.0

C37:MATH HARDER FOR ME THAN MOST PEOPLE

YHARDER	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
STRONGLY DISAGRE	195	5.1	195	5.1
DISAGREE	1291	34.0	1486	39.1
UNDECIDED	1426	37.5	2912	76.6
AGREE	697	18.3	3609	95.0
STRONGLY AGREE	191	5.0	3800	100.0

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C38:MEN BETTER SCIENTISTS AND ENGINEERS

YMENBET	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	235	.	.	.
STRONGLY DISAGRE	234	6.2	234	6.2
DISAGREE	995	26.2	1229	32.4
UNDECIDED	1400	36.9	2629	69.3
AGREE	897	23.6	3526	92.9
STRONGLY AGREE	269	7.1	3795	100.0

C39:MATH USEFUL IN EVERYDAY PROBLEMS

YUSEDAY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
STRONGLY DISAGRE	24	0.6	24	0.6
DISAGREE	200	5.3	224	5.9
UNDECIDED	922	24.3	1146	30.2
AGREE	1969	51.8	3115	82.0
STRONGLY AGREE	685	18.0	3800	100.0

C40:MATH HELPS TO THINK IN STRICT RULES

YRULES	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	232	.	.	.
STRONGLY DISAGRE	60	1.6	60	1.6
DISAGREE	452	11.9	512	13.5
UNDECIDED	1819	47.9	2331	61.4
AGREE	1271	33.5	3602	94.8
STRONGLY AGREE	196	5.2	3798	100.0

C41:REFUSE TO SPEND OWN TIME DOING MATH

YNOTIME	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	233	.	.	.
STRONGLY DISAGRE	299	7.9	299	7.9
DISAGREE	1773	46.7	2072	54.6
UNDECIDED	1174	30.9	3246	85.5
AGREE	467	12.3	3713	97.8
STRONGLY AGREE	84	2.2	3797	100.0

C42:MATH HAS PRACTICAL USE FOR JOBS

YPRACT	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	229	.	.	.
STRONGLY DISAGRE	28	0.7	28	0.7
DISAGREE	67	1.8	95	2.5
UNDECIDED	269	7.1	364	9.6
AGREE	2213	58.2	2577	67.8
STRONGLY AGREE	1224	32.2	3801	100.0

C43:NO PLACE FOR ORIGINALITY IN MATH

YLTORIG	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	239	.	.	.
STRONGLY DISAGRE	83	2.2	83	2.2
DISAGREE	716	18.9	799	21.1
UNDECIDED	1784	47.1	2583	68.1
AGREE	1075	28.4	3658	96.5
STRONGLY AGREE	133	3.5	3791	100.0

C44:BOYS HAVE MORE NATURAL MATH ABILITY

YBOYSAB	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	234	.	.	.
STRONGLY DISAGRE	375	9.9	375	9.9
DISAGREE	1193	31.4	1568	41.3
UNDECIDED	1596	42.0	3164	83.4
AGREE	514	13.5	3678	96.9
STRONGLY AGREE	118	3.1	3796	100.0

C45:MATHEMATICS IS A SET OF RULES

YMTHRUL	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
STRONGLY DISAGRE	34	0.9	34	0.9
DISAGREE	236	6.2	270	7.1
UNDECIDED	1202	31.6	1472	38.7
AGREE	1950	51.3	3422	90.0
STRONGLY AGREE	380	10.0	3802	100.0

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C46:MOST DONT USE MATH IN THEIR JOBS

YNOUSE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	228	.	.	.
STRONGLY DISAGRE	357	9.4	357	9.4
DISAGREE	1413	37.2	1770	46.6
UNDECIDED	1165	30.6	2935	77.2
AGREE	708	18.6	3643	95.8
STRONGLY AGREE	159	4.2	3802	100.0

C47:ESTIMATING IS IMPORTANT MATH SKILL

YESTIMP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	230	.	.	.
STRONGLY DISAGRE	54	1.4	54	1.4
DISAGREE	421	11.1	475	12.5
UNDECIDED	1153	30.3	1628	42.8
AGREE	1876	49.4	3504	92.2
STRONGLY AGREE	296	7.8	3800	100.0

C48:MANY WAYS TO SOLVE MATH PROBLEMS

YMNYWYS	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	229	.	.	.
STRONGLY DISAGRE	17	0.4	17	0.4
DISAGREE	139	3.7	156	4.1
UNDECIDED	628	16.5	784	20.6
AGREE	2488	65.5	3272	86.1
STRONGLY AGREE	529	13.9	3801	100.0

C49:I USUALLY FEEL CALM WHEN DOING MATH

YCALM	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	234	.	.	.
STRONGLY DISAGRE	146	3.8	146	3.8
DISAGREE	1076	28.3	1222	32.2
UNDECIDED	1451	38.2	2673	70.4
AGREE	1006	26.5	3679	96.9
STRONGLY AGREE	117	3.1	3796	100.0

C50:CALCULATORS HELP LEARN MATH TOPICS

YCALHLP	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	235	.	.	.
STRONGLY DISAGRE	161	4.2	161	4.2
DISAGREE	892	23.5	1053	27.7
UNDECIDED	1157	30.5	2210	58.2
AGREE	1353	35.7	3563	93.9
STRONGLY AGREE	232	6.1	3795	100.0

C51:BOYS NEED MORE MATH THAN GIRLS

YBOYSND	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	231	.	.	.
STRONGLY DISAGRE	524	13.8	524	13.8
DISAGREE	1541	40.6	2065	54.4
UNDECIDED	1177	31.0	3242	85.3
AGREE	432	11.4	3674	96.7
STRONGLY AGREE	125	3.3	3799	100.0

C52:IF CHOICE I WOULDNT LEARN MORE MATH

YNOMORE	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	232	.	.	.
STRONGLY DISAGRE	619	16.3	619	16.3
DISAGREE	1594	42.0	2213	58.3
UNDECIDED	1108	29.2	3321	87.4
AGREE	374	9.8	3695	97.3
STRONGLY AGREE	103	2.7	3798	100.0

C53:NEW DISCOVERIES IN MATH BEING MADE

YNEWDSC	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	226	.	.	.
STRONGLY DISAGRE	27	0.7	27	0.7
DISAGREE	230	6.0	257	6.8
UNDECIDED	1555	40.9	1812	47.6
AGREE	1639	43.1	3451	90.7
STRONGLY AGREE	353	9.3	3804	100.0

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C54:MATH CAN BE SOLVED DIFFERENT WAYS

YDIFWAY	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
.	229	.	.	.
STRONGLY DISAGRE	24	0.6	24	0.6
DISAGREE	119	3.1	143	3.8
UNDECIDED	871	22.9	1014	26.7
AGREE	2129	56.0	3143	82.7
STRONGLY AGREE	658	17.3	3801	100.0

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